# COMBO

HOLDEN

Owner's Name .....
Address .....
Town .....
State.....Postcode .....

Model Name .....
Reg. No.....Eng. No. .....
Odometer Reading .....
Date of Purchase .....

(17 character I.S.O.V.I.N.) Vehicle Identification Number

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | |

# Vehicle Identification Certificate

Selling Dealer's
Stamp & Signature .....

Holden Ltd, A.C.N. 006 893 232 (hereinafter Holden).

## Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this vehicle. Also, if less than three years old, this car will qualify for Roadside Assistance, refer Chapter 9. If you have recently changed your address, or name, or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the form on the third page of this Handbook.

Part No. 92057432
SB Combo, print 5, April 1999

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We thank you for choosing Holden and want to assure you of our continuing interest in your motoring pleasure and satisfaction.

This handbook applies to all SB Combo models. Therefore, due to different models and options, you may find reference in this Handbook to some equipment not installed in your own vehicle.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

## CHANGE OF ADDRESS OR OWNERSHIP

Please fill in the form below if you have changed your name, address, bought the car second-hand, or have become the new driver.

Holden requires these details in order to contact the operator in the event of a safety recall and to keep the initial 3 year Roadside Assistance details up to date (refer Chapter 9).

Please mail to the address on the back of this page.

Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Title: (Mr, Mrs, Miss, Ms, etc.)

First name in full or initials

Surname or Name of Company/Institution/Government Department

Address

Street/box

City/Town

State Postcode

Car registration number

Holden Number (see page 8-5 of this book)

ISOVIN Number (see page 8-5 of this book)

*Place in an envelope and mail to:*

The Manager - Warranty Administration
Service Department
Holden Limited
Box 548D, G.P.O.
Melbourne
Victoria, 3001

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CHAPTER 1

# Dash board

The following page illustrates the dash board, identifying the gauges, warning lights, controls and switches. Page reference numbers are listed next to each item.


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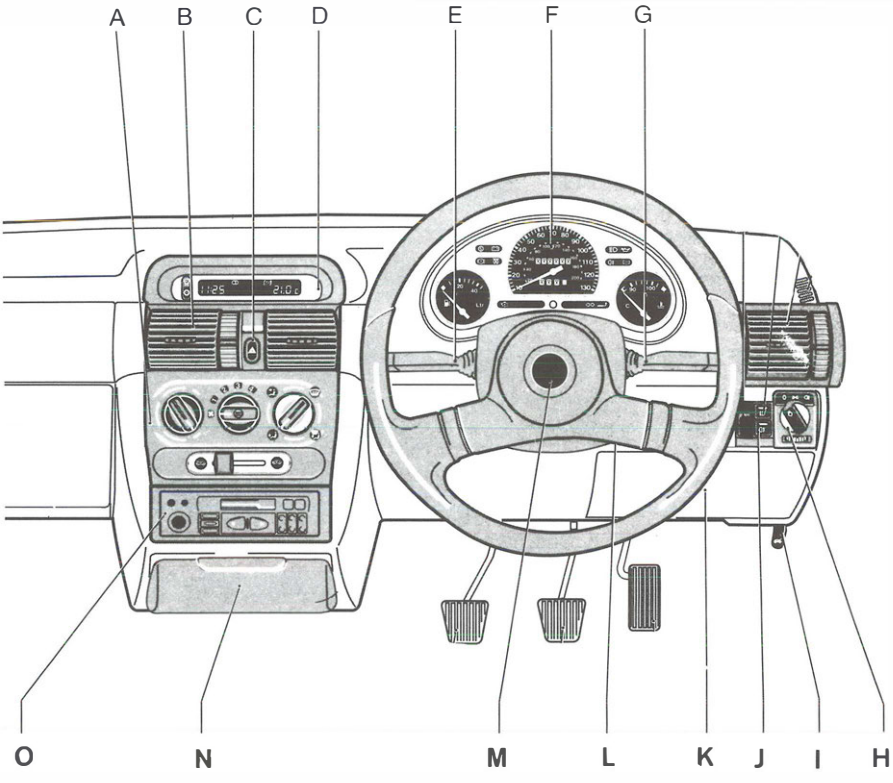
| 1-3 | Horn |
| 1-4 | Gauges |
| 1-6 | Warning/reminder lights |
| 1-8 | Wipers and washers |
| 1-9 | Exterior lights |
| 1-11 | Ash tray |
| 1-11 | Radio |
| 1-12 | Heater and air conditioner |
| 1-17 | Clock |
| 1-18 | Bonnet release |

## LAYOUT

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| M | Horn | 1-3 |
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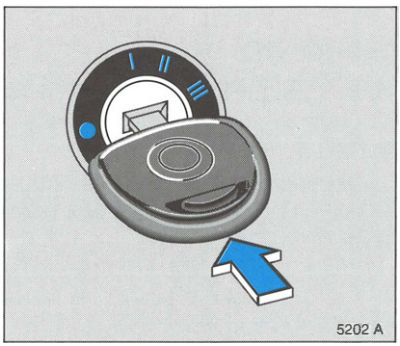
# IGNITION and HORN

● *LOCK:* Steering locked, ignition off.

I *OFF:* Steering unlocked, ignition off

II *ON:* Ignition on

III *START:* Start the engine




**To release steering column lock:**

To release the lock, move the steering wheel slightly and turn the key to position I.

**To lock steering column:**

Withdraw key in position ●. Rotate steering wheel until the lock is heard to engage.

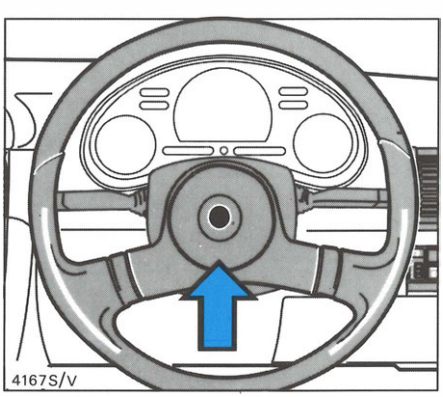
**CAUTION:**

Do not turn the engine off while the vehicle is moving. Power assisted equipment (such as brakes or steering) which are operated by the engine will be ineffective. Never remove the key while the vehicle is in motion as this will lock the steering of the vehicle.

## Horn

Press the horn pad in the centre of the steering wheel to activate.

If the vehicle is fitted with an air bag the horn is activated by pressing the symbol, on either side of the steering wheel.



# GAUGES

## Speedometer

The speedometer indicates speed in kilometres per hour.

The odometer (in the top half of the speedometer) records kilometres travelled since the vehicle was built.

The tripmeter (in the lower half of the speedometer) records kilometres travelled on a particular trip. Push the tripmeter reset knob, located beneath the tripmeter to reset the tripmeter reading to zero.

## Dimmer

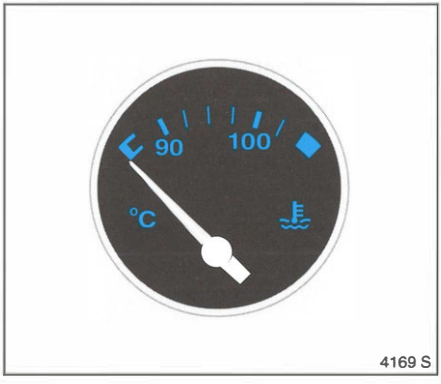
Gauges are illuminated when the headlights or park lights are switched on.

Brightness can be adjusted by turning the knurled knob.

# GAUGES

## Engine temperature gauge

If the needle should move all the way to right and remain there for more than 30 seconds, you should stop the vehicle as soon as it is safe to do so. Refer "Emergencies" chapter for further information.

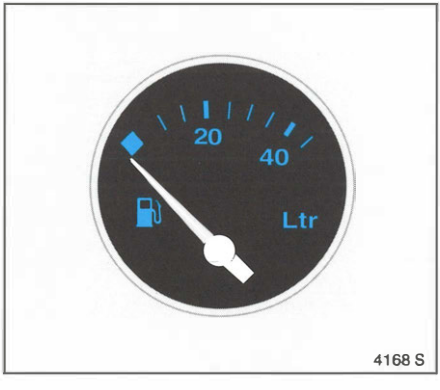



## Fuel gauge

The fuel tank has a capacity of 46 litres. "Full" is indicated when the needle is pointing to the right side of the gauge scale.

On some models, a warning light is provided in the fuel gauge. This will light up when the fuel is running low, and will come on earlier when driving around bends.

Refer to chapter 5 when refuelling.



# WARNING LIGHTS

## Battery

Lights up when ignition is switched on. Goes out once the engine has been started and engine speed increased above idle speed.

If it lights up during driving then the battery is not being charged (engine cooling may also be affected). You should see a Holden Dealer as soon as possible.

## Brakes

Lights up when ignition is switched on if park brake is applied and/or brake fluid level is too low.

To check that the bulb is working, ensure that the symbol lights up when the park brake is applied and the ignition is ON.

If it lights during driving and the park brake is *not* applied you should stop the vehicle as soon as possible, as the light is indicating that the brake fluid level is low.

## Check engine

Your vehicle is fitted with an Electronic Engine Management System. The check engine symbol indicates when system service is required.

The symbol lights when the ignition is switched ON. Goes out shortly after the engine starts to run.

When driving, the symbol may light up briefly and then go out again. This is of no significance. However, if it often or continuously lights up then service to the Engine Management System is required.

Although the vehicle may still be drivable and does not require towing, see your Holden Dealer as soon as possible as continued driving could affect fuel consumption, engine performance or may damage the catalytic converter.

However, if the symbol *flashes* and the engine cannot be started, turn the ignition key to OFF for at least 2 seconds before attempting to start the engine again.

## High beam

Lights up when headlight high beams are in use.

## *WARNING LIGHTS*

### Oil pressure

Lights up when ignition is switched on and goes out after engine is started. It can light up intermittently when idling if engine is hot, but must go out when engine speed is increased.

If illuminated during driving, immediately stop the vehicle and switch off the engine. Check the engine oil level. Do not run the engine with this light showing. If the oil level is normal, have the system checked at your nearest Holden Dealer.

### Fog tail lights

Lights up when the fog tail lights are switched on.

### Turn signal indicator

Flashes when turn signal lights are on. If the symbol flashes rapidly a turn signal lamp bulb has failed.

### Air bag (if fitted)

Lights up for a few seconds when the ignition is switched on. If it does not go out or if it comes on during driving, there is a defect in the air bag system, and you should consult your Holden Dealer as soon as possible.

# WIPERS & WASHERS

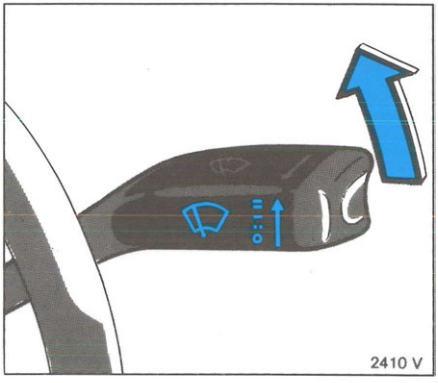
## Windscreen wipers

Move the lever upwards.

= fast

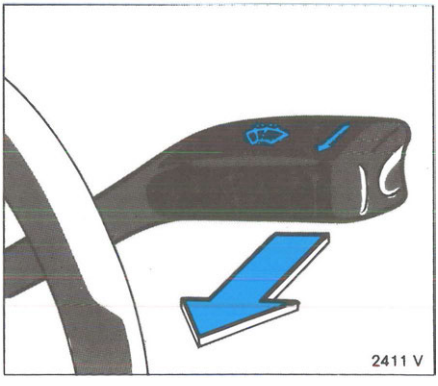
- slow

O off



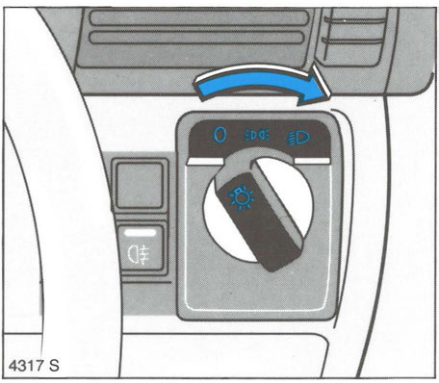

## Windscreen washer

Never operate with wipers on dry glass, as this will damage the rubber. To spray washer fluid onto the windscreen pull the lever toward you.



# EXTERIOR LIGHTS

## Light switch




○ off

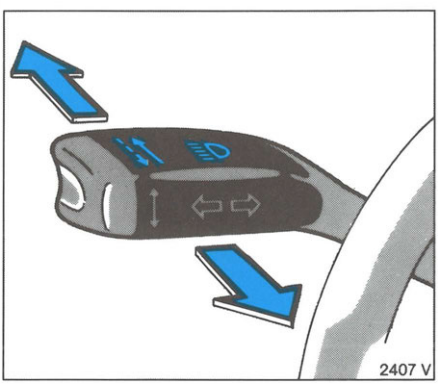
park lights

park lights plus headlights

pull to turn on courtesy light

## High/low beam

When the headlights are switched on, push the lever away from you, until you feel a click, then release. The headlights will change from low to high beam. Pull the lever back towards the steering wheel to return to low beam. When the high beams are in use a symbol on the instrument panel will glow.



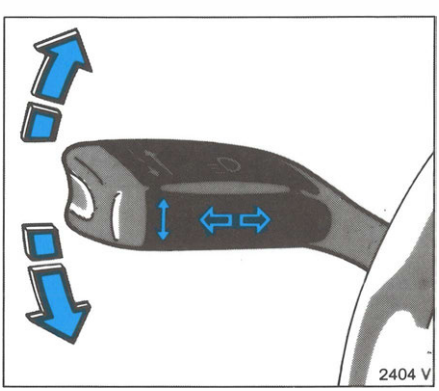

It is also possible to flash the high beams for signalling purposes (even if the headlights are off) by pulling the lever towards you. The lights will remain in high beam as long as the lever is held.

Leaving the headlights switched on without the engine running will eventually flatten the battery.

## Turn signals

Push the lever up or down (as required) to signal a turn.

In some turns (such as changing lanes) the steering wheel is not turned far enough to cancel the turn signal. So, to indicate a lane change, move the lever part way and hold. The lever will return to the neutral position when released.



# EXTERIOR LIGHTS

## Fog lights

The switch for the fog lights is located just to the left of the switch for the headlights.

Push the button to switch the fog lights on/off.

The light in the instrument panel indicates when the fog lights are working.

You should check your State's Laws regarding use of fog lights when driving.

## Hazard

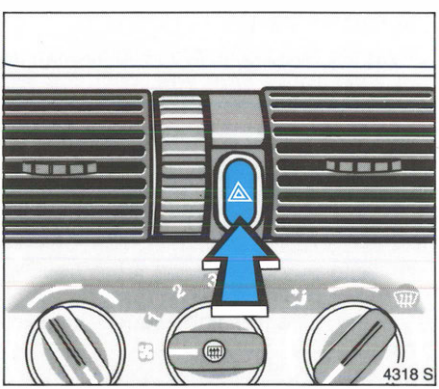
Depress = on

Depress again = off

Use the hazard warning flasher to warn other drivers if your vehicle becomes a traffic hazard, day or night.

When the hazard warning system is on, the button's symbol will flash, in unison with the external turn signals.

Use of the hazard warning flashers while the car is moving is illegal in some States.



# RADIO, CIGARETTES, GLOVEBOX

## Radio

The radio can be heard until the key is removed from the ignition. Therefore, remember to remove the key when leaving the car for any length of time, or you may flatten the battery.

The radio can also be heard when the key is removed from the ignition by pressing the ON-VOL knob. In this case, the radio will automatically switch off after one hour.

Refer to radio leaflet for operating instructions.

**Important cassette care note**
After repeated playing, residue from the tape surface and dust from surroundings builds up on the tape head and tape handling surfaces. This is first noticed as lack of treble and a muffled sound.

To assure good quality sound, reduce dropout and have trouble free operation, a good quality cassette head cleaning tape should be used every month or two, depending on the amount of use.

## Mobile phones and CB radios

Mobile phones and CB radio equipment which use an integrated antenna, may temporarily affect the vehicle's electronics when used inside the vehicle, due to the interference created when transmitting.

Therefore, mobile phones and CB equipment that use an antenna fitted to the outside of the vehicle should be used whenever possible.

If phones or CBs with an integrated antenna *must* be used inside the vehicle, care should be taken not to operate near the dashboard area.

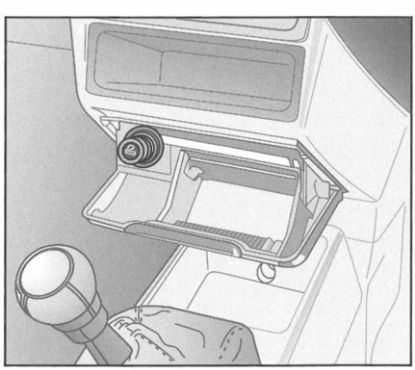
## Ashtray and cigarette lighter (if fitted)

Swivel the cover down to reveal the ashtray.

The cigarette lighter (if fitted) is also located behind the cover and works when the ignition is switched ON. Push the cigarette lighter inwards to heat.

To empty the ash tray, remove the tray by depressing the front of the tray to unhook and then pulling towards you. Empty and simply push back into place.

To close the ashtray and cigarette lighter, swivel the cover up.



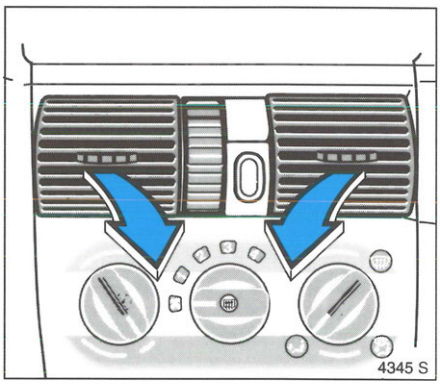
## HEATING AND AIR CONDITIONING (if fitted)

The vehicle features a flow through ventilation system for your comfort. Under reasonable conditions, it shouldn't be necessary to open the windows at any time.

Outside air (except when the vents are closed) is drawn into the vehicle through the opening at the base of the windscreen. Do not allow this opening to become clogged with debris, such as leaves or snow.

The demist and feet vents are not adjustable as they direct air to the windscreen, windows or feet in the best possible way.

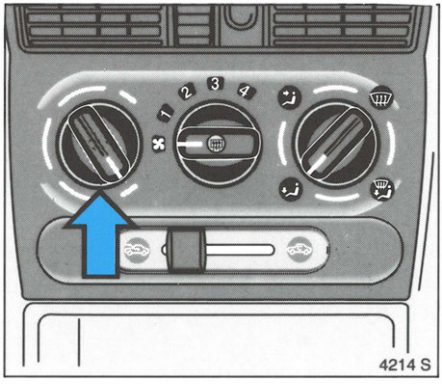
However, the vents which direct air to the face are adjustable. They can be swivelled and tilted as required. They can also be completely shut off by turning the wheel at the side of the vent downwards. Note that the centre vents act as a pair and are shut off or turned on together, by the middle wheel.



# HEATING AND AIR CONDITIONING (if fitted)

## Temperature dial

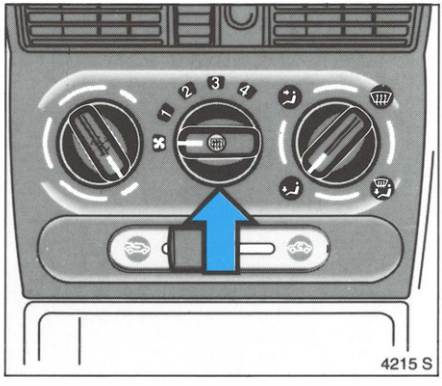
Anticlockwise = cold; clockwise = warm.




## Fan dial

Off plus 4 fan speeds are provided.

Note that the rate of air flow is determined by vehicle speed, as well as by the fan, and therefore the fan should be switched on when driving slowly.




## Vent dial

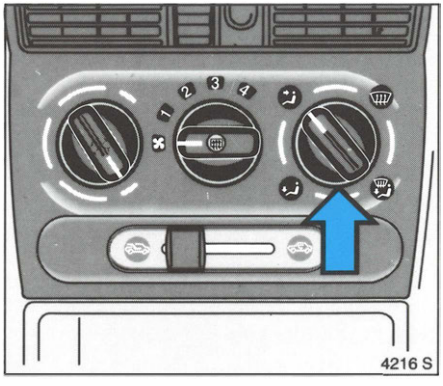
air from demist vents

air from demist and foot vents

air from foot vents

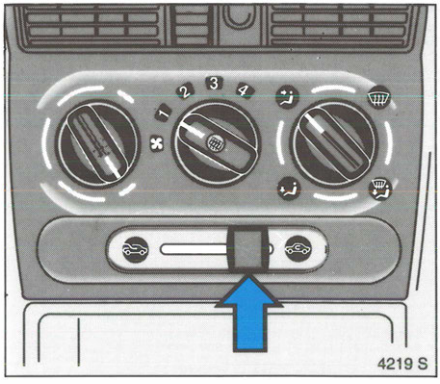
air from face level vents

Note that air will come from the face vents with all vent dial positions, provided the vents are open.



# HEATING AND AIR CONDITIONING (if fitted)

## Air intake switch




Lever to the left: fresh air.

Lever to the right: re-circulated air.

To aid air conditioning, the air intake lever is slightly restricted from full travel when air conditioning is fitted.

When following another vehicle on dusty roads, or to prevent exhaust fumes or odours entering your vehicle, move the switch to the re-circulation position. However, when driving on unsealed roads but where the dust is not airborne, move the switch to fresh. All windows must be closed and the fan preferably on a high speed so that positive air pressure in the vehicle will prevent dust entry.

**'Re-circulate' reuses interior air and is therefore not recommended for long periods of time.**

If occupants are smoking, it is recommended that the re-circulate position NOT be used, as the tobacco smoke adheres to the air ducts and will produce stale smelling air.

## Air conditioning (if fitted)

Air conditioning not only cools the air but also removes moisture. Then, if the temperature dial is moved away from extreme cold, the air will be reheated before entering the cabin.

The air conditioner is switched on by pulling out the dial which controls the temperature. The snowflake symbol on this dial will glow when the air conditioner is operating. The fan automatically runs at low speed, which can be increased if required.

The air conditioning system operates only in the temperature ranges in which it is required; it switches off automatically when the outside temperature is below + 4° C.

To conserve fuel, switch off the air conditioning in cold weather. However, once every two weeks (with the engine running) switch the air conditioner on for 5 to 10 minutes, even in Winter. This will lubricate the air conditioning system.

At least one vent must be open, when the air conditioning is ON, so that the evaporator does not ice up due to a lack of air movement.

# AIR CONDITIONING NOTES (if fitted)

## Maximum cooling in hot weather or when the vehicle has been left in the sun

Open windows briefly so that warm air can escape rapidly.

- air conditioning switch ON (pull out temperature dial)
- air intake in re-circulate position
- move temperature lever to cold
- fan to highest speed
- set vents dial to "face"
- open all vents

Do not leave re-circulation on for too long, as no outside air is drawn into the vehicle; cabin air is re-circulated.

## Normal cooling

- air conditioning switch ON
- air intake to fresh air
- move temperature lever to cold
- fan speed as required
- set vents dial to "face"
- open all vents

## Ventilation without air conditioning

To conserve fuel when air does not require cooling.

- air conditioning switch OFF
- air intake switch to fresh
- move temperature lever to cold
- fan as required
- set vents dial to "face"
- open vents

## Window demisting and defrosting

- air conditioning switch ON
- temperature lever to hot
- fan as required
- vents dial to "demist"
- open side vents and direct them towards the door windows. For simultaneous warming of the foot area, set vents dial to "face and foot".

# HEATING, DEMISTER

## Heating

- air conditioning switch OFF
- air intake switch to fresh
- move temperature lever to hot
- fan as required, but not full speed
- vents dial to "foot"

Note that heat will not be available until the engine warms up. Therefore, keep vents closed until the engine has warmed up, then direct vents towards side windows (if required) to aid defrosting.

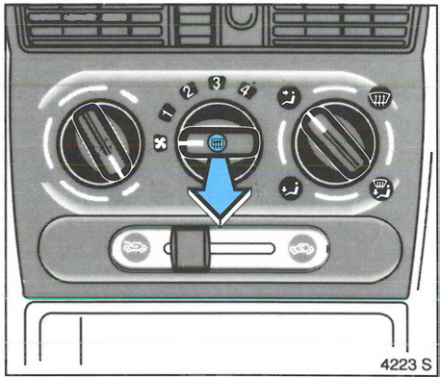
## Demister (rear window)

The rear window demister is only operational when the engine is running.

To switch on, pull out the dial which controls the fan speed.

When operating, a symbol in the middle to the fan dial will glow.

Remember to turn off the demister as soon as the rear window is clear.

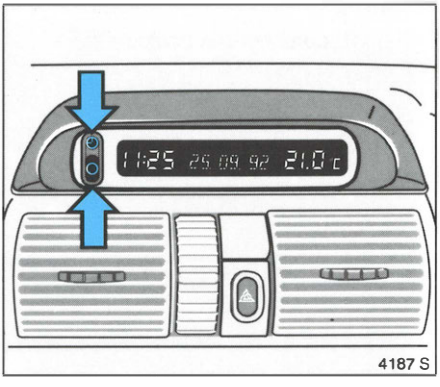


# CLOCK

Display shows the time, date and outside temperature when the ignition is ON.

As with the instrument lighting, the brightness of the display (when park/head lights are on) can be adjusted with the knurled knob below the light switch.

When the ignition is off, the display can be illuminated for approx. 15 seconds by briefly pressing one of the buttons on the left side of the display.




**Adjusting the display:**

- Turn on the ignition and switch off the radio
- Press top button for approximately 2 seconds (hours starts flashing)
  Press bottom button until hours are correct
- Press top button (minutes starts flashing)
  Press bottom button until minutes are correct
- Press top button (day starts flashing)
  Press bottom button until days are correct
- Press top button for approximately 2 seconds (months starts flashing)
  Press bottom button until months are correct
- Press top button (years starts flashing)
  Press bottom button until years are correct)
- Press top button - clock starts at 0 seconds

**Outside temperature**

Caution: The road surface may be icy, even though the display indicates a few degrees above zero.

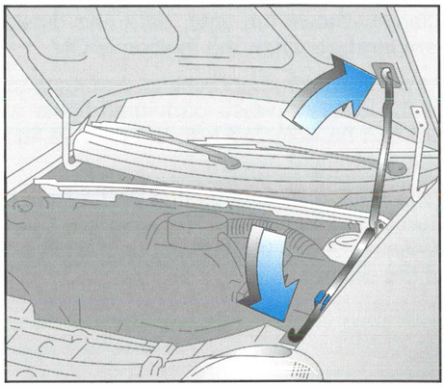
To warn the driver that the road surface may be icy, the display flashes for approx. 20 seconds when the temperature drops below 3° C.

"--.-° C" in the display indicates a fault in the system and you should see your Holden Dealer.

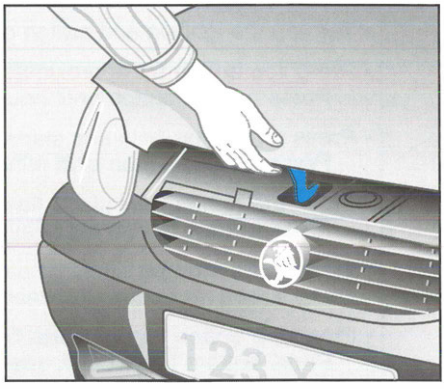
Note that a fall in temperature is indicated immediately, and a rise in temperature after a short delay.

# BONNET

From inside the vehicle, pull the lever toward you. This allows the bonnet to release but is prevented from opening by the safety catch.



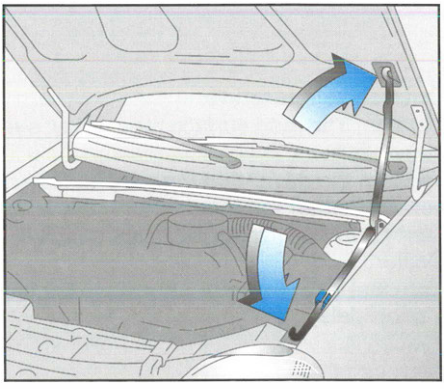
To open completely, lift bonnet slightly, reach in under the bonnet and move the lever upwards (while lifting the bonnet).



Fully open the bonnet. Insert support rod into slot provided.

Before closing, press support rod firmly into holder and lower the bonnet gradually to be finally dropped by its own weight.

Always check that the bonnet is properly closed and that the release lever inside the vehicle has returned to its original position.



## Notes

CHAPTER 2

# Locks

Page


2-2 Keys
2-2 Door locks
2-3 Rear door lock
2-4 Free turning door locks

# KEYS & LOCKS

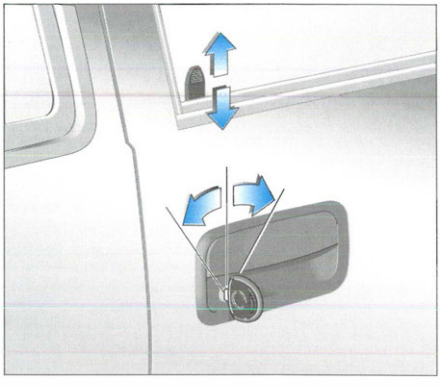
## Keys

Before placing the key on your key ring, remove the plastic tab (or label) and hide in a safe place away from your car. Then, if your key is lost, a replacement can be ordered through a Holden Dealer by quoting the key code number and providing proof of ownership.

Also note the key code on alloy wheels if they are fitted with locks.

Some cars also have a security card which list various security numbers for your car. As with key numbers, please keep the security card in a safe place, away from your car.

## Doors



Doors are locked when the lock button is down and unlocked when the lock button is up.

To open a front door, turn the key in the lock and raise the door handle.

To lock doors from inside, depress the lock button.

If the button on driver's door is depressed when the door is open, it will spring up when the door is closed, thus preventing the driver from being inadvertently locked out. The button will not, however, spring up if the door handle is raised when the door is being closed.

## Fuel filler

To unlock filler cap, insert key and turn anticlockwise. Refer Chapter 5 when refuelling.

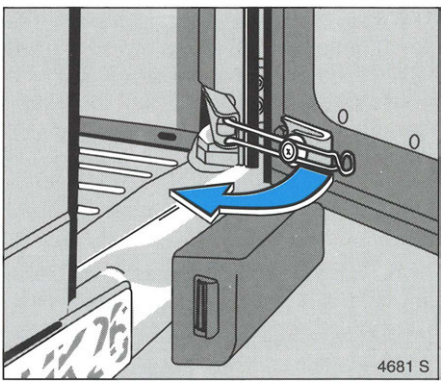
# REAR DOOR LOCK

## From the outside

Turn the key in the door lock cylinder anti-clockwise to lock the rear doors, or clockwise to unlock the doors.

Lift up the handle to open the right-hand door. Then, to open the left-hand door, reach around to the inside of the door and pull up the lock lever.

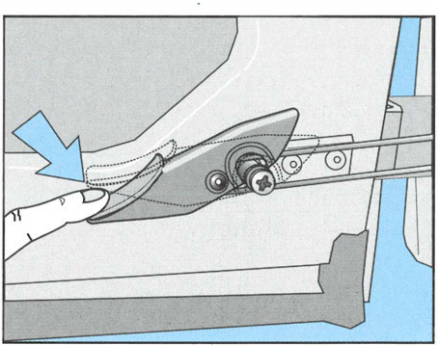
Both doors can be opened up to 180° by disconnecting the wire at the bottom of each door.




## From the inside

The lock lever is located on the inside of the right side door. Move the lever downwards to unlock the door from the inside.

The rear doors are locked open by check links. Push the curved lever (part of the check link assembly) downwards while closing the door/s.



## FREE-TURNING DOOR LOCKS

The door lock cylinder is designed to free turn if it is forcefully rotated without the correct key or if the correct key is not fully inserted. To reset, turn the lock with the correct key until its slot is vertical, remove the key and then re-insert it. If the lock still free turns, turn the key through 180 degrees and repeat the operation.

Note that this feature is provided as a theft deterrent - to prevent the lock being forced open. The force required to make the key "free turn" reduces each time. As the force gets easier with each "free turn" please do not attempt to demonstrate or test this feature, and always remember to fully insert the key when locking and unlocking the doors.

If you have problems contact your Holden Dealer. Remember that your car is covered for the first 3 years by Roadside Assist, refer Chapter 9.

## Notes

CHAPTER 3

# Know your vehicle

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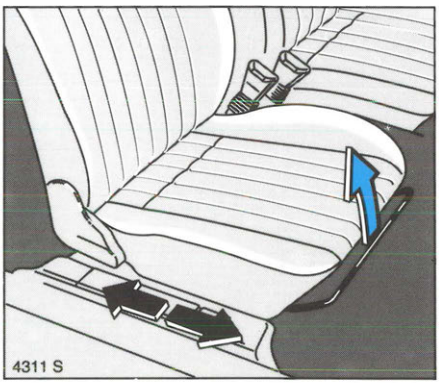
3-2 Seat adjustment
3-4 Seat belts
3-6 Mirrors
3-6 Windows
3-7 Park brake
3-7 Dome (Interior) light
3-7 Luggage compartment light
3-8 Cargo carrier

# SEAT ADJUSTMENT

## Forward/rearward

Lift the lever at the front of the seat upwards then slide the seat forward or backward. After releasing the lever, try to move the seat back and forth to check that the catch has locked in position.

Never adjust the driver's seat whilst driving. The seat could move suddenly and cause the driver to lose control.



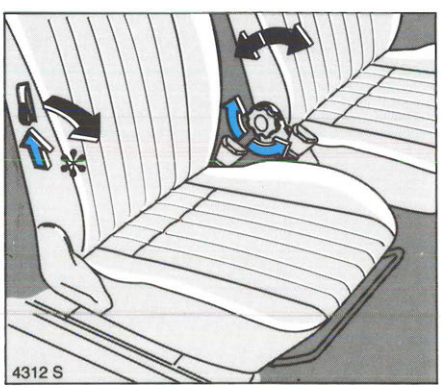

## Folding seat and recline/incline

The back of the seat can be folded forward by moving the lever illustrated.

To adjust the angle of the back of the seat, turn the large, toothed wheel illustrated.

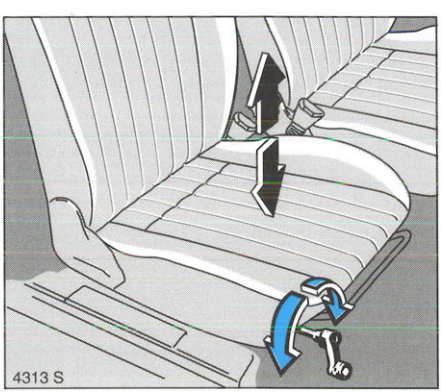
**CAUTION:**

To avoid reducing the effectiveness of seat belts it is recommended that the reclining seats be used in no more than a semi-reclined position when the vehicle is moving. The fully reclined position should be used only when the vehicle is stationary.




## Height adjust (if fitted)

Turn the crank handle to adjust the height of the driver's seat, in respect to the pedals and steering column.

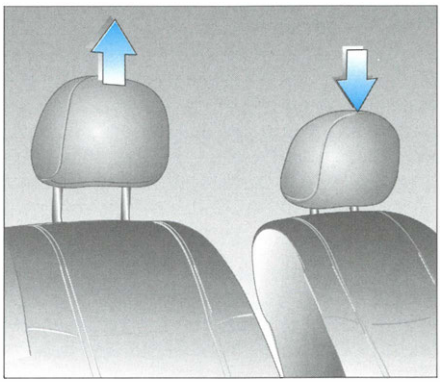


## SEAT ADJUSTMENT cont.

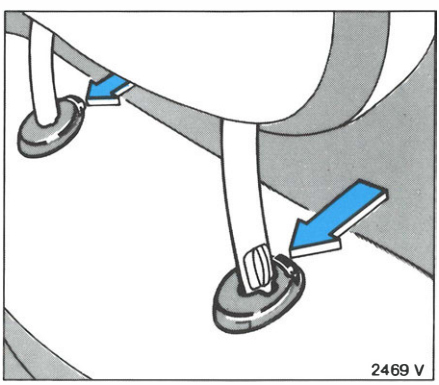
### Head restraint

To adjust height, pull up or press down.

The upper edge of the head restraint should be approximately at eye level - never at neck level.

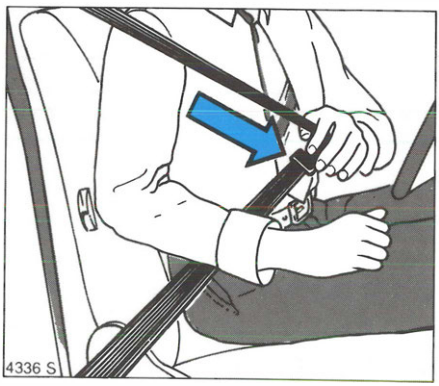


To remove head restraint, release both locking springs while pulling up.



# SEAT BELTS

## Retractor belts



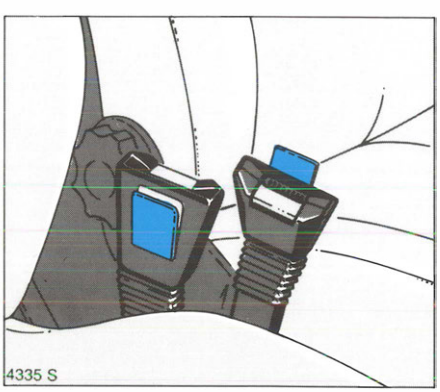

To put on a retractor seat belt, pull the metal tongue across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". After fastening, settle the belt at the hip, go across to the buckle, then up under the sash. Any extra belt length will retract automatically.

The lap section should be worn as low as possible on your hips, not on your waist. Make sure the sash and lap sections of the seat belt are free from twists and are fitting firmly.

The emergency-locking retractor belt allows you to move freely while the vehicle is travelling normally. The belt will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To undo the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.

## Seat belt tensioners




The front seat belt system incorporates (once-only) belt tensioners. In the event of a frontal collision the belt buckles are pulled downwards; the diagonal and lap belts are instantaneously tightened.

If the belt tensioners have been actuated the yellow indicator on the belt buckles become visible. Even though the seat belt (apart from this feature) may remain operational, the entire system *must* be replaced by a Holden Dealer.

Australian law requires that the driver and all passengers be properly restrained at all times with the seat belts provided in the car. Failure to do so could increase the chance of injury and/or the severity of injury in accidents.

# SEAT BELTS cont.

## Seat belt height adjust

- Do not adjust while driving.
- Pull seat belt slightly out.
- Press the arrow on the belt guide (located where the sash of the seat belt attaches to the vehicle - near your shoulder).
- Move seat belt guide up or down, as required.
- Release belt guide at required position and ensure belt guide has clicked into position.
- Short people should select a low belt guide position, tall people a higher one. This will ensure, for both safety and comfort, that the webbing of the seat belt fits on the shoulder.

**WARNING:**

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact, even if damage to the assembly is not obvious. Belts should not be worn with straps twisted.

Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modification or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

The positioning of the tongue restrictor must never interfere with, or stop, the belt from fully retracting.

Combo models are not fitted with child restraint anchorage points, being classified as "light commercial" models.

# MIRRORS AND WINDOWS

## Internal rear view mirror

Grasp mirror and swivel to adjust height.

Using the lever on the lower edge, tilt the mirror to reduce dazzle at night.

## Exterior mirrors

Grasp the mirror and move the mirror up/down, and in/out, as required.

## Windows

Turn the handle on the door to raise or open the windows.

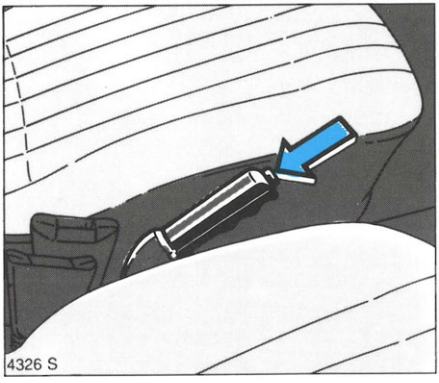
# PARK BRAKE & INTERIOR LIGHTS

## Park brake

To apply, pull the lever straight up.

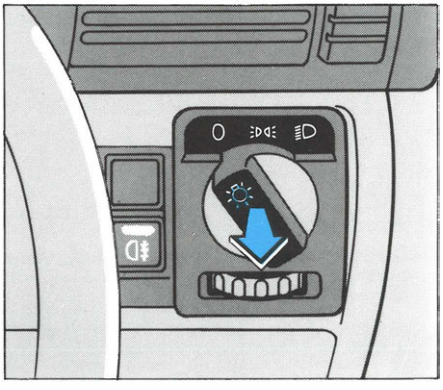
To release, pull the lever slightly upwards, push in the release button on the end of the lever and whilst depressed, lower the lever all the way down.

Never drive the vehicle with the park brake applied.




## Interior "dome" light

The dome light comes on when either the light switch is pulled out or a door is opened.



## Luggage compartment light

The luggage compartment light comes on when the tailgate/rear door is opened.

## CARGO GRILLE

The cargo should be secured so that it cannot slip and must not obstruct the driver's view in the mirror.

The cargo grille helps protect the passengers if the cargo does move, for-instance in an accident or sudden braking. It should therefore be in position at all times when carrying goods in the rear compartment.

It is recommended that:

- Loads are placed up against the cargo barrier.
- That long thin items of cargo are positioned long ways across the vehicle to minimize the penetration risk.
- That objects are not attached to the front of the cargo barrier.

The grille can however be removed or reinstalled via the 4 bolts on either side of the grille. When reinstalling ensure all 4 bolts are tightened securely.

## Notes

CHAPTER 4

# Driving

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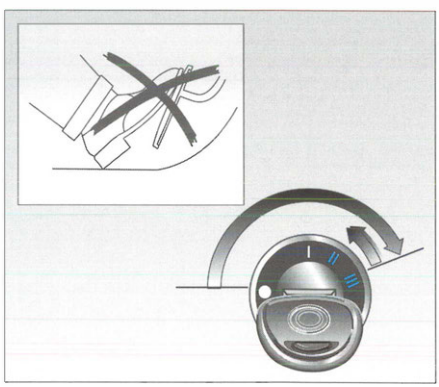
4-2 Engine starting
4-2 Running-in
4-3 Safety
4-4 Manual transmission
4-5 Driving precautions
4-5 Snow chains

# ENGINE STARTING

1. Apply the park brake firmly and release only after you have started the engine and are ready to drive off.
2. Depress the clutch pedal and shift the gear lever to Neutral position. The clutch pedal can now be released.
3. Start the engine as outlined below (with your foot off the accelerator).

   For cold or hot starting the procedure is the same. Simply turn the key to the start position and release when the engine starts. YOU DO NOT HAVE TO DEPRESS THE ACCELERATOR PEDAL PRIOR TO, OR DURING, STARTING. DEPRESSING THE ACCELERATOR PEDAL WILL ONLY INCREASE CRANKING TIME AND WILL NOT HELP THE ENGINE TO START.



If the engine won't start and the warning light on the instrument panel is flashing, turn the ignition key to OFF for at least 2 seconds before attempting to start the engine again.

## Running-in (for the first 1,000 km).

Drive your vehicle at various speeds. **Do not use full throttle.** Never allow the engine to labour.

Make good use of all gears. Depress the accelerator pedal a maximum of around three quarters of the available pedal travel in all gears and drive ranges.

In the interests of the engine and final drive, do not drive faster than three quarters of maximum speed.

Unless necessary, try not to brake too hard during the first 200 km or after new brake pads have been fitted.

## Switching off the engine

If the engine temperature is very high, e.g. after driving in hilly areas, then allow the engine to idle for approximately two minutes (in order to prevent heat accumulation) before switching off the engine.

# SAFETY

## Before entering the vehicle

1. Check that windows, mirrors and lights are clean.
2. Check tyre inflation.
3. If you intend to reverse, check that the area behind your vehicle is clear.

## Before driving off

1. Be sure that all doors are secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. Check that all the warning indicators light up when you turn the key to start the engine.

## Parking

1. Apply the park brake.
2. Place manual transmission in FIRST or REVERSE gear.
3. Shut all windows.
4. Switch off exterior lights.
5. Turn ignition key to LOCK and remove the key.
6. Lock all doors.

**CAUTION:**

Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

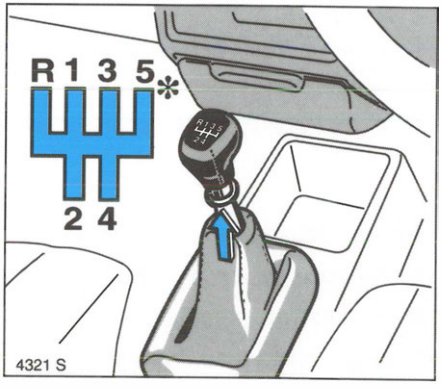
# MANUAL TRANSMISSION

This system has 5 forward gears and a reverse gear. The shift pattern illustrated, is also found on the top of the gear shift lever.

When selecting fifth gear you must shift the gear lever sideways against light spring pressure in order to pass into the gear.

To select reverse gear, lift the ring beneath the knob on gear shift lever and move the lever into the reverse position.

If the gear does not engage easily, then release and depress clutch pedal before trying again.




## Operating notes

- When shifting from one gear to another, be sure to depress the clutch pedal fully to avoid clashing and possible chipping of the transmission gears.
- Never attempt to engage reverse gear until the vehicle has completely stopped. A slight pause (at least 3 seconds) between depressing the clutch pedal and moving into reverse gear is desirable to allow all the rotating components to stop and avoid gear clashing. Whenever reverse gear is selected with the ignition ON, the reversing lights will operate.
- Shift the gear lever with a moderate effort to allow time for the transmission synchronizers to work properly.
- Do not drive with your foot resting on the clutch pedal. This will cause substantial clutch wear.
- When stopped on an incline do not hold the vehicle by slipping the clutch. Use the park brake or brake pedal.
- To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the descent.
- Do not over-speed the engine when shifting down to the next lowest gear.

# DRIVING PRECAUTIONS

## Brakes

- Power assisted brakes, which are fitted to your vehicle, utilise vacuum from the engine when it is running. Never let the vehicle run down steep grades without the engine running. Never coast with the engine switched off.
- Driving through water may affect performance. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.
- Brake pedal travel should not be obstructed by ill-fitting floor mats or any other material under the pedal which causes interference with normal pedal movement.
- Your seat should be positioned so that you can push the brake pedal satisfactorily under all braking conditions.

## Power steering (if fitted)

- If the power steering is rendered ineffective because the engine has stalled, the drive belt broken or if the pump reservoir is empty of fluid, the vehicle can still be steered. However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

## Loose articles

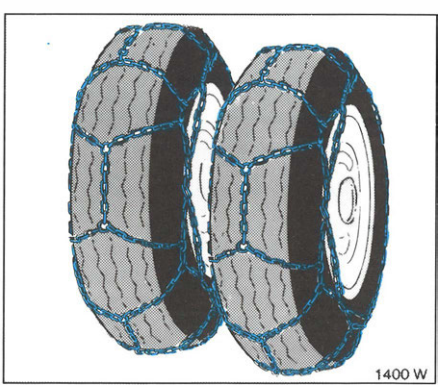
Do not leave loose articles or luggage in the passenger compartment. Whenever possible, loads stowed in the luggage compartment should be firmly secured.

## Tyre traction

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other materials are on the road surface. Driving practices and vehicle speed should be adjusted to the road conditions.

## Snow chains

- Combos are 'front wheel drive' vehicles, and as such, snow chains are only fitted on the front (driving) wheels.
- They must be fitted symmetrically on the tyre to ensure that they are seated concentrically. Only fine-linked chains, not protruding more than 15 mm on the tyre tread and inside of the tyre (including the chain lock) should be used.
- Depending on design, large hub caps may come into contact with parts of the chains. In such cases, remove the hub caps.
- Tyre chains can only be used at speeds up to 50 km/h and, when travelling on roads that are free of snow, they should only be used for brief periods since they are subject to rapid wear on a hard road and may snap.



CHAPTER 5

# Fuel

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5-2 Carbon monoxide caution
5-3 Petrol filling
5-4 Fuel Tank capacities
5-5 Emission Control
5-6 Reducing fuel consumption

## PETROL

### EXHAUST WARNING - CARBON MONOXIDE POISONING

Exhaust gases can produce carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

You could inhale the gases if the exhaust system on your vehicle is faulty.

To protect against exhaust gases entering the vehicle, the exhaust system and body should be inspected:

- each time the vehicle is serviced

- whenever a change is noticed in the sound of the exhaust system

- whenever the exhaust system, underbody or rear of the vehicle is damaged.

Take the vehicle to your Holden Dealer if you think your vehicle needs inspecting for any of the above reasons.

DO NOT SIT (OR LEAVE THE CHILDREN OR PETS) IN A PARKED VEHICLE FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING. DO NOT RUN THE ENGINE IN AN ENCLOSED AREA (SUCH AS THE GARAGE) ANY LONGER THAN IS NEEDED TO MOVE THE VEHICLE.

Driving with the hatch open is not recommended. If you must travel with hatch open, close all windows, ensure that the heater controls are set to outside (rather than re-circulate) with air directed to the face and the fan on the highest speed. Do not exceed 50 km/h unless necessary.

# PETROL

**CAUTION:**

- Petrol should be regarded as extremely flammable and highly explosive.
- Always turn off the engine when refuelling.
- Do not smoke or allow open flames or sparks near the vehicle when refuelling.
- If petrol fumes are smelt while driving, the cause should be found and corrected without delay.

The petrol filler is located on the driver's side of the vehicle.

Open the flap by hand, insert the key in the fuel cap and turn anticlockwise.

After refilling, turn the cap clockwise, then turn the key clockwise, remove the key and close the flap.

Over filling of the petrol tank can affect the evaporative Emission Control System and can also result in a smell of petrol inside the vehicle. Therefore:

1. Petrol tanks should always be filled at the intermediate or fast fill rate. Don't add any more petrol after the petrol filler first clicks off (or petrol blows back) - as this allows room for the petrol to expand inside the tank.

2. It is permissible to "trickle fill" petrol tanks when vehicles are to be driven for more than 50 km straight after the tank is filled. However, this is not recommended on hot days (over 30°C).

Wipe off any overflowing petrol immediately from the car; spray or splash with water (close the fuel opening before spraying with water).

# PETROL

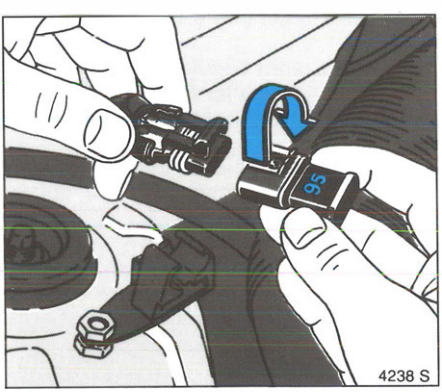
**Tank capacity = 50 litres**

## Petrol filler nozzle restrictor

To help the atmosphere, your vehicle has been designed to operate on UNLEADED PETROL. A petrol nozzle restrictor is fitted to ensure that UNLEADED petrol is used. This allows the thinner, unleaded petrol nozzle to open the hinged flap, so that petrol can be added to the tank. The leaded petrol nozzle is wider and therefore cannot open the flap. The use of fuel other than unleaded fuel will seriously damage the fuel system of your vehicle (particularly the catalytic converter and oxygen sensor) and may void your Warranty.

## Petrol requirements R.O.N. (Research Octane Number)

The fuel coding plug, is marked 95 on one side, 91 on the other. This designates the octane rating of the fuel being used in the vehicle.




You may elect to use either UNLEADED 91 octane rating (Research Octane Number) or UNLEADED 95 octane rating.

The programme number (91 octane or 95 octane) can be seen in front of the locking clip. If petrol with the other octane number is to be used, allow the fuel to run low, fill tank, make sure ignition is switched off, release coding plug from retainer, open locking clip, remove coding plug, turn plug over, re-insert into retainer and replace into vehicle.

You should never run the vehicle with low octane (91 rating) petrol if the coding plug is turned to 95 octane.

# EMISSION CONTROL

Your vehicle is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. Hydrocarbons and oxides of nitrogen, when exposed to sunlight under certain conditions, contribute to photochemical smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air.

The three major emission control systems fitted to your vehicle are:

1. **Evaporative Emission Control System** (Australian Vehicles Only)

   This system is designed to prevent the escape of fuel vapour from the fuel system and recycle them through the normal combustion process.

2. **Crankcase Emission Control System**

   This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.

3. **Exhaust Emission Control System**

   The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust Emission Control System is comprised of components including electronic control of spark, fuel and idle speed. In addition, Australian vehicles have a catalytic converter and closed loop mixture control system.

For detailed information on the operation, servicing and repair procedures for these systems, refer to your vehicle's service manual and/or the emission label inside the engine compartment (on the passenger side strut tower) of your vehicle.

## Owner responsibility

Vehicles sold and serviced within Australia have been designed to comply with Australian Design Rules and State Regulation emission requirements.

The engine or exhaust system of your vehicle must NOT be modified in any way. Any change to the Manufacturer's design may increase the emissions or otherwise defeat the intent of the regulations.

Any person who removes, modifies or hinders any part of the emission control system will be contravening regulations. It is also illegal to drive a car modified in this way.

## Maintenance requirements

To ensure continuing compliance with the regulations you must maintain your vehicle's emission control system as per your vehicle's service manual, at the frequency shown in the Holden Maintenance Plan in Chapter 12.

It is recommended that the necessary servicing be performed by an authorised Holden Dealer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.

# HOW TO REDUCE FUEL CONSUMPTION

## Engine

Maintain the engine in peak mechanical condition by having it serviced regularly in accordance with the Holden Maintenance Schedule, refer page 12-4. This will ensure items such as the spark plugs, air cleaner, etc. are maintained for minimum fuel usage and peak engine performance.

## Tyre pressure

Keep the tyres at the recommended pressures. Under-inflated tyres create extra rolling resistance which contributes to increased fuel consumption.

## Wheel alignment

Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag and increases fuel consumption.

## Warm ups and idling

Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively when driving.

You should also avoid long engine idling. If your have to wait for more than a couple of minutes turn off the engine to conserve fuel.

## Accelerating, driving and braking

Accelerate gently - avoid rapid starts, sudden bursts of speed and full throttle acceleration - they're certain fuel wasters.

Drive the vehicle at steady speeds where possible (after run-in). It is desirable to reach top gear as soon as possible, but under no circumstances should you force the engine to labour in top gear.

## Riding the brake

Do not rest your foot on the brake pedal when you do not intend to brake, as this can overheat the brakes, increase brake pad wear, damage the brakes and waste fuel.

## Air conditioning (if fitted)

Turn off the air conditioning, when not required.

## Notes

CHAPTER 6

# Emergencies

Page


6-2 Accidents
6-3 Medical assistance
6-4 Flat tyre
6-8 Engine overheating
6-10 Flat battery
6-12 Air bag (if fitted)
6-14 Towing a disabled vehicle


Your new vehicle is covered for 3 years by 24 hour Roadside Service, refer chapter 9.

# ACCIDENTS

All motorists are advised to learn what to do at the scene of an accident, particularly where persons are injured. Injured people can choke to death if their air passages are not cleared. They can bleed to death unless the bleeding is stopped. They may require mouth-to mouth resuscitation or may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs. In all cases, ensure safety for rescuers, victims and bystanders.

The following notes may help.

## Part 1. Accident - being involved.

If you are involved in an accident you are advised to do as follows:

Stop immediately and remember to turn off the engine and apply the park brake.

Remember that time is vital. Remain calm and alert. Think quickly and clearly.

Give all possible assistance to all injured persons (see Part 3. Medical assistance).

Send for police and ambulance if anyone has been injured. Give information as accurately as possible. Give the exact location, the number of injured people and a brief report on the overall situation.

Perhaps take charge of the situation.

Warn all other traffic approaching the scene. Turn off all ignition switches. Stop any smoking near spilt petrol. In darkness, try and light up the area to warn others, using a torch or headlights (do not use flammable items).

Clear the road of accident debris.

Exchange your name, address, vehicle registration number and the vehicle owner's name and address with the other parties involved in the accident.

If damage to property only has occurred, report the facts to the owner of the damaged property to his or her representative, to any police present at the scene or to the nearest Police Station.

Try to note all important facts because such details may be important if needed later.

## Part 2. Accident - being a witness

If you witness a road accident or it becomes your task to stop and help at the scene of an accident:

- Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.
- DO NOT stop at the scene of an accident just to be a spectator.
- Where other people are already in attendance and giving assistance, you should stop only if you can contribute assistance.
- Give what assistance you can to any injured persons. (See Part 3. Medical assistance).
- Follow most of the steps suggested in Part 1. Perhaps you may have to take charge of the accident situation.

# ACCIDENTS

## Part 3. Medical assistance

Keep calm and think clearly. Your experience may not be much but do your best.

- Look after the unconscious person first. Check airway, breathing and circulation. If no breathing, then check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.

Unconscious people can choke.
Carefully turn to one side.
Tilt the head back slightly.
Wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.

- You must be most careful in moving an injured person. Often it is best not to move at all but in conditions of danger, this is not always possible. Serious and permanent damage can be done to an injured neck or back if not supported during movement. NEVER BEND OR TWIST A NECK OR BACK. KEEP THEM STRAIGHT. All injured limbs require support when an injured person has to be moved.
- Provided it is not dangerous to do so because of other injures, an unconscious person will do best in the position illustrated here.

Lay the person on one side and - if it will not aggravate any injuries - then:

Bend the uppermost knee until the thigh is at right angle to the body.

Bend the uppermost arm and elbow so that the hand lies near the face.

Gently pull the underneath arm so that it rests straight on the ground free of any body weight.

- Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound BUT NEVER USE A TOURNIQUET.
- Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm but not hot. Best not to give any fluids and NEVER ALCOHOL.
- If the injured person is in danger and has to be moved, try and have three or four people help and concentrate on not bending or twisting the neck, spine and injured limbs. Keeping the neck and spine straight is most important.

*Illustrations reproduced from "The Victorian Road Code" with permission from Road Safety and Traffic Authority of Victoria.*

# FLAT TYRE

If using a jack other than the one supplied with the vehicle, refer Chapter 7 for lifting positions.

**CAUTION:**

- Use the jack only for lifting the vehicle when changing wheels.
- Never get beneath the vehicle when it is only supported by the jack.
- Do not start or run the engine while the vehicle is only supported by the jack.
- All passengers should be out of the vehicle when it is being jacked.
- Use the jack only at the designated lifting points. Use in other locations could damage the vehicle.
- The vehicle should only be jacked on hard, level surfaces.

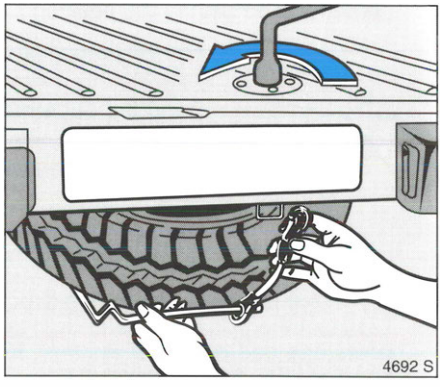
1. Park on level surface, ensure the wheels are pointing straight ahead and set the parking brake firmly.
2. Remove the ignition key (to lock the steering) and place the transmissions in REVERSE gear.
3. Remove the jack and tools which are located behind the passenger's and driver's seats.
4. Remove the spare wheel, which is stored under the rear of the vehicle.

   First loosen the bolt in the load compartment floor using the wheel bolt wrench (located behind the front seats).

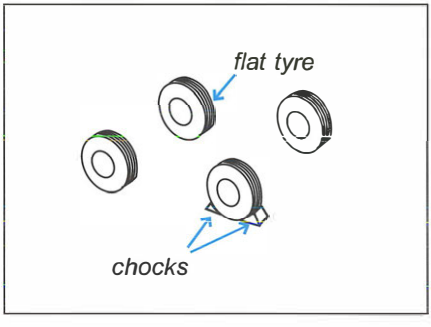
   Then, from underneath, lift the wheel retainer and disengage.

   Undo the securing strap.

   Lower the wheel retainer and remove the wheel.



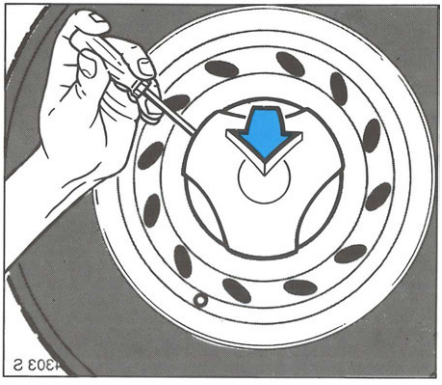

5. Chock the wheel diagonally opposite the flat tyre by placing wedge blocks, any available blocks of wood or rocks behind and in front of it.



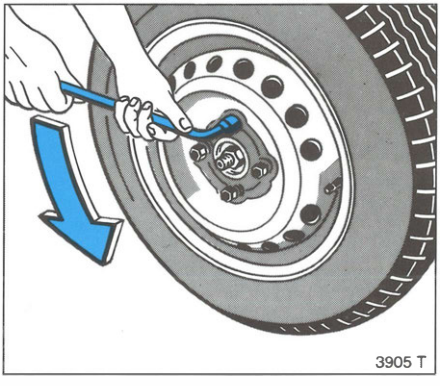
## FLAT TYRE

6. Remove the wheel trim:

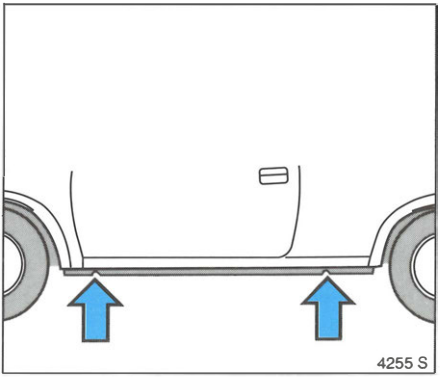
   Insert screwdriver in the recess and remove the hub cap.



7. Loosen (but do not remove) the wheel bolts with wheel bolt wrench.



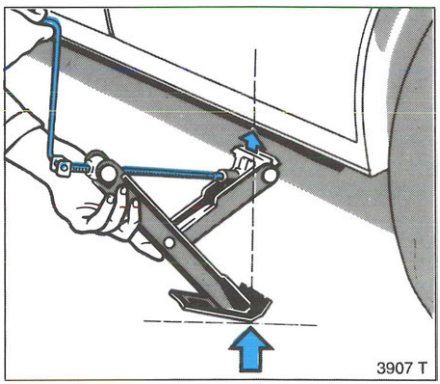

8. Half-circle cut outs on the lower edge of the vehicle's body indicate the points where the jack is to be placed.



## FLAT TYRE

9. Position the jack in the recess that is nearest the flat tyre.

   Ensure that the jack claw surrounds the semicircle cutout in the vehicle.




**CAUTION:**

Failure to position the jack as described above could result in serious personal injury or vehicle damage caused by the vehicle slipping off the jack.

10. Raise the vehicle by turning the crank handle, until the tyre is clear of the ground.

11. Remove the wheel bolts and place together in a dry spot to avoid getting dirt in the threads.

12. Remove the wheel from the vehicle and change it over with the spare.

13. Replace the wheel bolts and tighten by hand. Then, with the wheel wrench, lightly tighten in a crisscross sequence.

14. Lower the vehicle completely and remove the jack.

15. Fully tighten the wheel bolts with the wheel wrench in a crisscross sequence.

## FLAT TYRE

16. Press on the wheel/wheel bolt trim. Wheel covers have a valve symbol on the rear of the cover, which should point towards the valve.
Note that on light alloy wheels you should insert the pin on the back of the hub cap into the corresponding hole in the wheel.

17. Stow away wheel, tools, and jack:
Place the wheel in the spare wheel retainer under the rear of the vehicle and lift.
Attach securing strap.
Lift wheel retainer and secure in position.
Tighten bolt in load floor.
Store tools and jack behind front seats.

18. Have the tyre repaired as soon as possible.

**CAUTION:**

As soon as possible after changing a wheel, you should have the wheel bolts tightened with a torque wrench to 110 Nm and have the new wheel balanced on the vehicle. Wheel bolts should be tightened evenly to the correct torque in a crisscross pattern. Improperly tightened wheel bolts could eventually allow the wheel to come off while the vehicle is moving!

## ENGINE OVERHEATING

**CAUTION:**

Immediate action is required if the engine overheats. This can be indicated by the temperature gauge needle moving over to the right, by steam escaping from under the bonnet, a loss of power or a loud knocking or pinging noise.

Continued driving EVEN FOR A SHORT TIME could cause a fire, personal injury or vehicle damage.

Pull out of the traffic as soon as possible and stop the vehicle. Leave the engine idling and the park brake applied while you get out and check that the cooling fan is working.

**CAUTION:**

Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the bonnet.

If the fan is working and the temperature gauge needle has not returned to its normal position within a few minutes STOP the engine and remove the ignition key.

Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump.

Take care when checking all these areas as they will probably still be hot.

IF YOU FIND A MAJOR LEAK OR FIND OTHER PROBLEMS THAT MAY HAVE CAUSED THE ENGINE TO OVERHEAT, DO NOT RUN THE ENGINE UNTIL THESE PROBLEMS HAVE BEEN CORRECTED.

If you do not find anything wrong then you should check the engine coolant level in the surge tank.

**CAUTION:**

Do not remove cooling system caps if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

When the engine has cooled sufficiently, remove the surge tank cap (refer Chapter 7 for location) as follows:

## ENGINE OVERHEATING

Cover the surge tank cap with a thick cloth and slowly turn anticlockwise and remove.

Top up the surge tank with clean water to the centre weld joint WHEN THE ENGINE IS IDLING.

Replace the cap and leave the engine idling for a few minutes.

If, after taking one or more of the above actions, and once the temperature gauge no longer signals an overheat condition you can resume driving at a reduced speed. Return to normal driving after ten minutes if the temperature gauge does not again show an overheat condition.

If overheating occurs again you should have the vehicle attended to, as soon as possible, by a qualified mechanic.

Note that with this type of sealed, pressurised cooling system there should be very little loss of coolant. If the surge tank is low a leak is indicated. Therefore you should see your Holden Dealer as soon as possible to fix the leak.

The engine may temporarily operate at high temperatures during more demanding operating conditions, especially on very hot days. These conditions include:

- climbing a long hill
- stopping immediately after high speed driving
- idling for long periods in traffic
- towing a heavily laden trailer or caravan.

You should avoid operating your vehicle for prolonged periods in any of the above circumstances if the temperature gauge indicates high engine coolant temperature.

Refer Chapter 7, which gives maintenance instructions to help protect your cooling system from overheating.

# FLAT BATTERY

**CAUTION:**

DO NOT attempt to "push start" or "tow start" this vehicle, as it is fitted with a catalytic converter and if uncombusted fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire.

If your vehicle will not start due to a discharged battery, it can often be started by using energy from a battery in another vehicle - a procedure called "jump starting".

However, if after reading the following procedure you are still unsure about "jump starting" we strongly recommend for your safety and that of your vehicle that you leave the starting to a competent mechanic.

## Jump starting

**CAUTION:**

Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, to lessen the chance of personal injury when working near a battery:

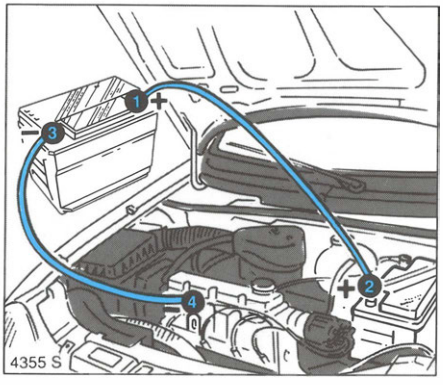
- Do not expose the battery to open flames or sparks. Battery action generates hydrogen gas which is flammable and explosive.
- Do not smoke near a battery.
- Wear eye protection such as industrial safety glasses and avoid leaning over the battery whenever possible.
- Do not allow battery acid to contact eyes or skin. Flush any contacted area with water immediately. In case of eye contact you should get medical help. Battery acid will also damage paint and fabrics if not washed off immediately.
- Be sure any batteries that have filler caps are properly filled with fluid.
- Remove rings, metal watch bands and other metal jewellery before working around the battery.
- Carefully follow each step in the jump starting procedures.
- Never use a quick charger to start your engine.
- Do not lean over the battery during jump starting.

# FLAT BATTERY

- The battery of your vehicle has a negative earth and a 12 volt rating. The battery in the other vehicle (that is being used to jump start the flat battery) must be the same voltage and also have a negative earth. The battery capacity of the charged battery must not be substantially lower than that of the discharged battery. So, check the specifications in the other vehicle's owner manual to see if it complies. Serious injury or damage may result if the wrong type of battery is used.
- Position the two vehicles so that they are NOT touching and apply the park brakes. Automatic transmissions are to be placed in PARK and manual transmissions placed in NEUTRAL. Turn off ignition and all lights and accessories in both vehicles, except the hazard warning flasher or any lights needed for the work area.

**Connect the leads in the order shown in the picture**

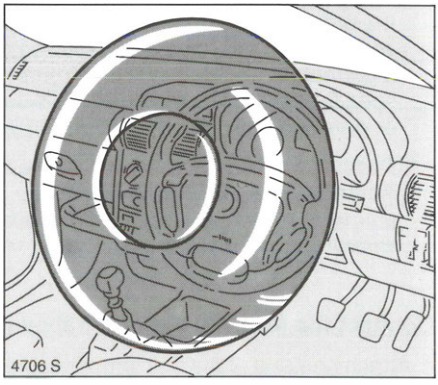
1. Attach one end of the first jumper cable to the positive terminal of the other vehicle's battery (identified by "+" or "P" on the battery case, post or clamp).
2. Connect the other end of the same cable to the positive terminal of your vehicle's battery.
3. Attach one end of the second jumper cable to the negative terminal (identified by "-" or "N" on the battery case, post or clamp).
4. Connect the other end to a solid stationary, metallic point on your vehicle's engine. DO NOT CONNECT DIRECTLY TO NEGATIVE POST OF YOUR VEHICLE'S BATTERY! The connection should be as far away from the discharged battery as possible.




- When making all connections take care that the clamps from one cable do not inadvertently touch the clamps on the other cable. Also, ensure that jumper cables are not on or near pulleys, fans or other points that will move when the engine is started.
- Start the engine in the other vehicle and run the engine at a moderate speed. Then start the engine in your vehicle. Attempts to start the engine with the discharged battery should be made at intervals of one minute and should not last longer than 15 seconds.
- After starting, allow both engines to idle for approx. 3 minutes with the leads still connected.
- Leave the engine running as you remove the jumper cables by reversing the above sequence exactly. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.

# AIR BAG (if fitted)

The airbag system is identified by the word "Airbag" on the steering wheel.

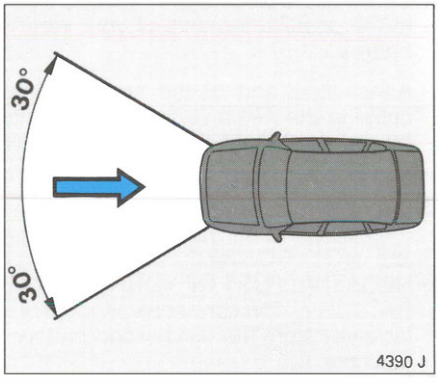



If your vehicle is involved in a severe front end collision, the air bag will inflate, assisting the seat belts to restrain forward body movement.

An operating noise may be heard and a small amount of smoke-like gas will be released. The gas is harmless and does not indicate malfunction or fire.

The air bag will then deflate - the whole process *only taking a moment*.

The air bag assist, but does not replace the seat belts. Air bags are not designed to inflate if the vehicle is hit from the rear or side or the vehicle overturns. *Seat belts (by law) should be worn by all passengers whenever the vehicle is moving.*




*Air bags will inflate if the vehicle is struck hard within the non-shaded section. Air bags will not inflate if the vehicle is struck from side, rear, or in some rollovers....always wear a seat belt.*

Air bags inflate with great force. If you are too close to an inflating air bag it could seriously injure you. Seat belts help keep you in position for air bag inflation in a crash.

The light on the instrument panel will glow for a few seconds when the ignition is switched ON. This is to indicate that the air bags are operational. If the light *does not* show when the ignition is switched to ON, or if it comes on when driving, you should contact your Holden Dealer.

## AIR BAG (if fitted)

After use the whole air bag system will have to be replaced by your Holden Dealer.

The system should also be inspected by a Holden Dealer if the steering wheel or dash board area is scratched, cracked or damaged. Remember that the horn pad must not be covered with adhesive or any other material, as this may hinder air bag operation.

**CAUTION:**

If a passenger's side air bag is fitted, the dash board area must be kept clear with nothing around this area or hanging from the sun visor.

Extensive design and testing has gone into the air bag system. It is extremely reliable and has very little chance of accidental inflation. It should however, be treated with respect. Any careless or unskilled interference with the system could lead to its failure or to accidental inflation. Any work to the electrical system, steering column, dash board area, steering wheel or air bag system should *only* be carried out by an authorised Holden Dealer.

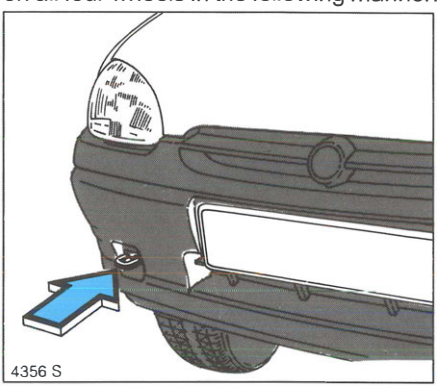
BULL BAR NOTE: Fitting a "bull bar", or making other modifications to the front of the vehicle, may change the impact speed which would normally cause the air bag to inflate, reducing its effectiveness.

# TOWING A DISABLED VEHICLE

## Towing a disabled Combo

Proper lifting or towing equipment is necessary when lifting or towing the vehicle to prevent damage during any towing operation. State and Local laws must be followed. In an emergency, your vehicle may be towed on all four wheels in the following manner:

- Attach a tow rope to the eye, illustrated. Do not attach to the bumpers or brackets.




- Place transmission in neutral/N position and release the park brake.
- Switch the ignition to position II (on) position. This will free the steering lock and allow the correct operation of windscreen wipers, horn and turn signals.
- For the sake of safety and to prevent damage to the vehicle it is advisable to avoid jerky movements and to drive slowly during towing operations.
- Remember that power assist for brakes and power steering (if fitted) will not be available when the engine is off. Therefore, more effort will be required to brake and steer.
- To prevent the entry of exhaust fumes from the towing vehicle into the passenger compartment of your vehicle, close the windows and stop entry of air by moving heating and ventilation controls to "re-circulate" position.
- If the transmission is defective, or if the above speed or distance is to be exceeded, the front of the vehicle must be raised.
- Only the driver should be in a towed vehicle.

## Towing another vehicle from a Combo

Attach a tow rope to the rear towing eye, never to the rear axle. Drive off slowly and avoid jerky movements.

CHAPTER 7

# Weekly checks


Page

7-2 Miscellaneous checks
7-2 Service manuals
7-3 Engine oil level
7-4 Engine coolant level
7-5 Power steering fluid level
7-5 Brake fluid level
7-6 Washer fluid level
7-6 Battery
7-7 Fuses
7-8 Tyres
7-11 Trolley jack locations
7-12 Bulb replacement

## MISCELLANEOUS CHECKS

As well as taking your vehicle to be serviced (refer Chapter 12) there are a few simple, weekly checks that the owner (or Nominee) is required to make. These are shown on the following pages.

The following checks should also be regularly done to ensure proper safety and dependability of your vehicle.

**CAUTION:**

The engine cooling fan can start working unexpectedly, even when the engine is not running. To avoid injury from the fan, make sure the ignition key is switched OFF, so that the fan cannot start operating.

**CAUTION:**

Electronic ignition systems have a high ignition power. Do not touch the ignition system; this could be highly dangerous.

**CHECK:**

- that all exterior lights are working and that their appropriate interior indicators light up when in operation,
- mirrors and glass are clean and not scratched,
- the aim of water on the windscreen and condition of the wipers,
- demister operates,
- condition and operation of all seat belts (give it a sharp tug to make sure that it will 'lock' if necessary) and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

### Service manuals

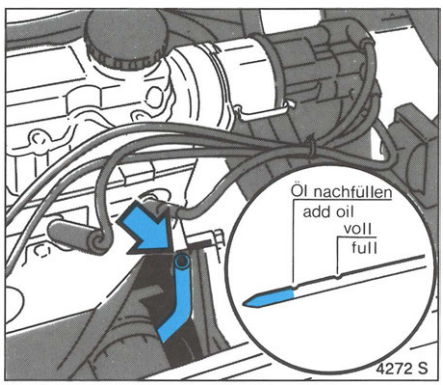
General Motors-Holden's Automotive Limited also publishes various service manuals which are available from your Dealer.

## ENGINE OIL LEVEL

It is normal for every engine to consume some oil. For this reason the engine oil level should be checked every 500 km or before starting a long trip.

The oil level must be checked with the vehicle parked on level ground and with the engine (which must be at normal operating temperature) switched off. Wait at least two minutes before checking the level to allow the oil to settle. If the engine is cold the oil may take considerably longer to drain back.

To check the level, remove the oil dipstick, wipe it clean and re-insert it as far as it will go, pause for a second then withdraw the dipstick and look at the oil level on it.



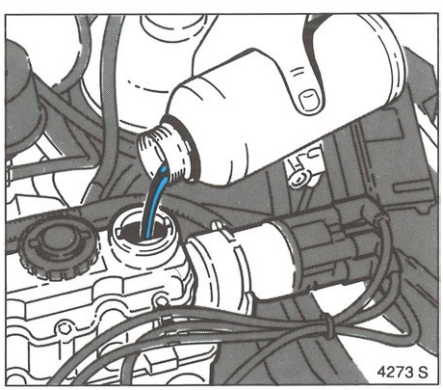

The oil level should be maintained between the two marks.

If you need to add oil, use engine oil confirming to ACEA classification A2 or A3, viscosity grade 15W-40 or 15W-50.

To add oil, undo the cap on top of the engine. Add enough oil to bring the oil level to *full* mark. As a guide, the distance between the marks represents 1 litre of oil.

Wait a few minutes for the oil to settle. Then check the oil level again. If still too low, add more oil. If now correct, replace the oil cap and the dipstick.

Note that the oil level should not go above the *full* mark on the dipstick. This would lead, for example, to increased oil consumption, fouling of the spark plugs and excessive formation of carbon residue.

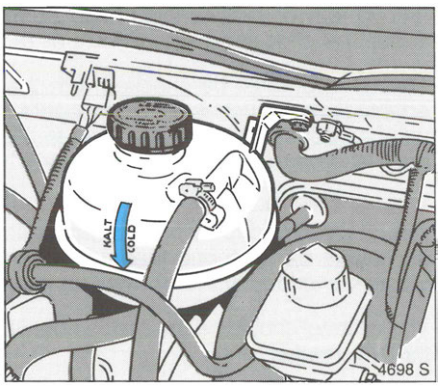



Oil consumption should not be judged until the vehicle has run several thousand kilometres. It may take this long for oil consumption to stabilize.

**NOTE**: Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended. Their use will increase costs, may be detrimental to the operation of your car and may void your New Vehicle Warranty, to the extent that Holden considers the non-recommended fluid to have affected the specifications or quality of your Holden vehicle.

## ENGINE COOLANT LEVEL

The level of coolant should be checked at least weekly. This is simply a matter of looking at the level in the plastic container when the engine is cold.




The level should be slightly above the KALT/ COLD mark when the engine is cold. The level rises when the engine is running and drops again when the engine cools down. If the level falls below the 'cold' mark the coolant should be topped up to a little over the mark.

The LONG LIFE COOLANT in your vehicle conforms to Holden specification number HN 2217.

If topping up, first mix a solution of 50% LONG LIFE COOLANT and 50% water.

Failure to use the coolant meeting Holden's specification or maintaining the specified concentration may result in voiding your warranty.

In an emergency, plain water may be used temporarily in the cooling system until the correct Holden LONG LIFE COOLANT is obtained as soon as possible from the nearest Holden Dealer.

It should be noted that the specified long life coolant contains special corrosion inhibitors for the best corrosion protection of your engine and cooling system. This LONG LIFE COOLANT also gives your cooling system greater hot weather protection by increasing the boiling point and in addition provides protection in cold weather conditions down to -37°C, provided the correct concentration is maintained.

If you regularly have to top up the cooling system, you should see your Holden Dealer.

**CAUTION:**

Corrosion inhibitors and antifreeze fluids are poisonous. Use extreme care when handling. If swallowed seek medical attention. Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

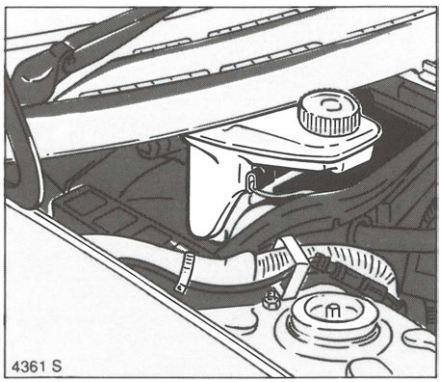
Refer Chapter 6 if engine overheats.

# BRAKE & POWER STEERING FLUID LEVEL

## Brake fluid level

**Caution:**

Brake fluid is poisonous and will damage the paint finish of your vehicle if spilt.




The brake fluid in the master cylinder should be checked weekly. The master cylinder is located in the engine bay, on the driver's side of the vehicle.

The fluid level, visible in the see through master cylinder, should be maintained between the MIN and MAX level markings (shown in the cutout at the side of the master cylinder).

If the fluid is between these levels do not remove the master cylinder cap. Remember that brake fluid exposed to the atmosphere will quickly absorb moisture which in turn lowers the boiling point of the fluid as well as increasing risk of corrosion of brake components.

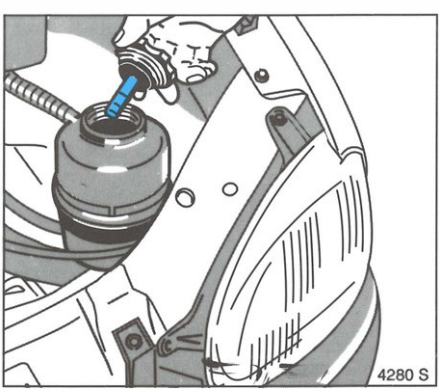
If fluid needs to be added, first clean around the cap. Top up with heavy duty brake fluid which meets SAE Specification J1703, DOT 4.

Remember to secure the cap.

NOTE: Use only new brake fluid. Use of an old, used or inferior brake fluid may endanger the functioning of the brake system.

If the master cylinder requires constant topping up it could indicate that a malfunction exists and you should immediately see your Holden Dealer.

## Power steering fluid level (if fitted)




The container for the power steering fluid is located in the engine bay. Check the fluid level when the engine is turned off.

Unscrew and carefully remove the cap on top of the container. The dipstick is attached to the cap.

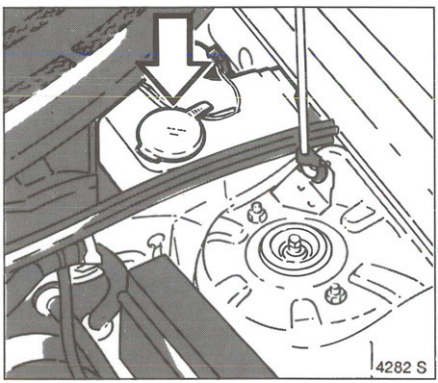
If the vehicle has been driven for a while the fluid level should be at the upper level mark. When the fluid is cold the level should be at the lower mark (but never lower).

If fluid needs to be added, use Dexron®11E or Dexron®111.

Do not overfill. Remember to replace the cap tightly. If you often need to add fluid, you should see your Holden Dealer.

# WASHER FLUID LEVEL & BATTERY

## Washer fluid level



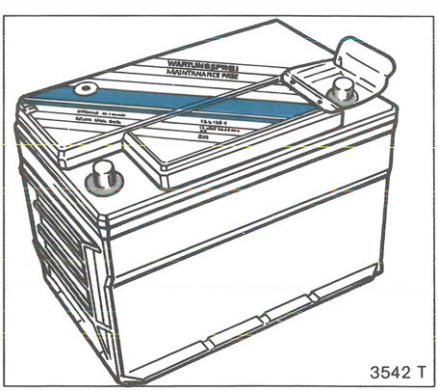

As the washer fluid is constantly used the level should be checked weekly and topped up as required.

The washer container is located under the bonnet, on the passenger's side. On some models it is to the rear of the engine bay, on other models it is located further towards the front of the vehicle.

One of the two styles (both illustrated) will be fitted to your model. Both styles have a flip top cap, which must be secured after filling.

For a crystal clear windscreen, the correct amount of Optikleen (part no 92140005) can be added. Do not use ordinary soap or detergent as these not only froth up but will also damage the wiper rubbers.

## Battery




Your vehicle is fitted with a maintenance free battery, which means that the fluid level does not need to be checked.

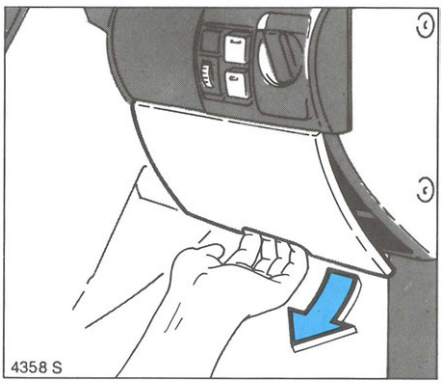
Note: You should never disconnect the battery when the engine is running.

If removing the battery for recharging, first disconnect the negative cable, then the positive cable. Never charge the battery while still connected to the vehicle. When reconnecting, first connect the positive cable to the positive post of the battery, and then the negative cable to the negative post of the battery.

Ensure the plastic cover is installed over the positive terminal.

# FUSES

The fuses are located under a cover inside the vehicle, to the right of the steering column. Pull the cover up from the bottom.

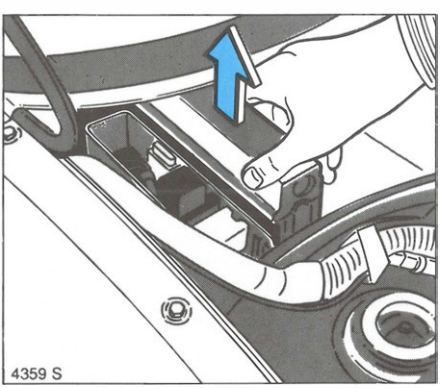



Fuse symbols are shown on the inside of the cover.

Fuses used are of the blade type with the amperage values moulded into the head. To determine whether or not a fuse has "blown", it is necessary to pull out the suspect fuse and examine the element in the fuse. If the element has broken, replace the fuse with one of the same value.

Note that you must pull the rounded tab upwards when replacing the fuse block in its original position.

If after replacing a burnt-out fuse the new fuse also burns out, an overload is indicated. The cause of the fault should be located and rectified, preferably by a Holden Dealer.



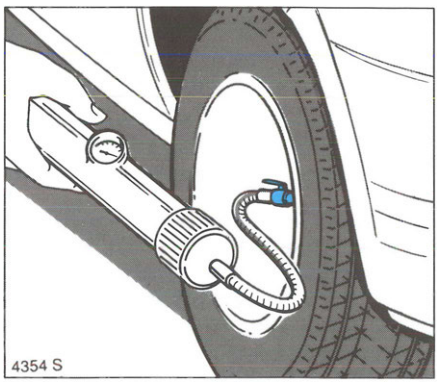

**CAUTION:**

When replacing a fuse be sure to use a fuse of the specified amperage. Never install a wire or similar device to replace a fuse, as it could damage electrical components and may cause a fire hazard to your vehicle.

Relays are located in the fuse box. Further relays (and additional fuses) are located in the engine bay.

# TYRES

## Tyre air pressure




Checking the air pressure of your tyres (including the spare) ensures your safety, as well as reducing fuel consumption and increasing the life of your tyres.

Make sure your vehicle will handle at its best - check the pressures weekly. For constant long distance or rough road travelling, daily checking is recommended.

For correct pressure for your tyres, refer to the tyre placard, on the inside of the fuel flap.

Tyre inflation pressure increases when the tyres have been driven more than 2 km. The pressure should be checked when the tyres are cold (stationary for over 3 hours). If they must be checked when warm/hot, allow pressure to read 10% above that recommended.

Always use a tyre pressure gauge to check the tyres - simply looking at the tyres is not sufficient.

If the pressure is too low, this can result in considerable tyre warm-up and internal damage, leading to tread separation and even to tyre blowout at high speeds.

Remember to put back any valve dust caps or extensions, if so equipped. This stops dirt and moisture from fouling the valves.

When checking the tyre air pressure, take a look at the condition of the tyre tread and inspect for stones or abnormal wear.

## Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the vehicle to "pull" to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear such as cupping and flat spots.

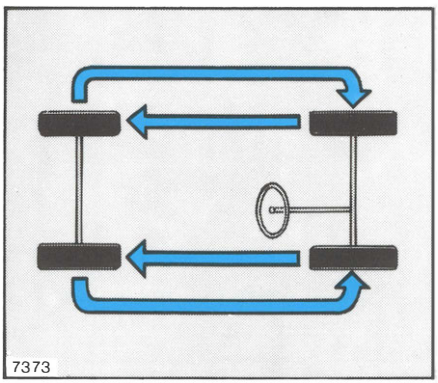
If you have any reason to suspect that either of the above problems exists then have a wheel alignment and balance check done by your Holden Dealer.

# TYRES

## Tyre inspection and rotation

Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment and balance, tyre pressures etc.

Tyre condition will be checked for you when you take your vehicle to be serviced by your Holden Dealer, who will be able to diagnose any unusual signs of wear. If the tyres are rotated it is recommended that the balance be checked at the same time.




## Heavy treads

Caution must be exercised when using tyres with heavy treads, including tyres designed to gain traction in bad weather conditions. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer.

Any doubts concerning the fitness of the tyres on your vehicle for the purpose you require should be referred to your Holden Dealer.

## Wheel replacement

When replacing wheels for any reason, ensure that the new wheels are equivalent in diameter, rim width, offset and mounting configuration to those originally installed in your vehicle.

NOTE: Replacing your factory fitted wheels and tyres with non specified wheels and tyres may affect your warranty as well as your motor vehicle insurance policy.

## Tyre traction

**CAUTION:**

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other material is on the road surface. Driving practises and speed should be adjusted to the road conditions.

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydroplaning, may cause partial or complete loss of traction, which adversely affects control and stopping ability. To reduce the possibility of traction loss, the following precautions should be observed.

1. Reduce speeds during rainstorms, when roads are slushy or if the road has standing water or puddles.
2. Replace tyres when tread wear indicators are visible.
3. Check that tyres are properly inflated.

# TYRES

## Tyre replacement and repair

**CAUTION:**

Do not mix different tyre construction types, such as radial and cross ply, on your vehicle except in emergencies, because your vehicle's handling could be affected and may result in loss of control.

When replacing tyres you should use the same size, load rating and construction type as the original tyres on your vehicle. Refer to tyre placard on your vehicle for tyre size and load rating. Using a different size or type of tyre may affect such things as ride, handling, speedometer/odometer calibration, ground clearance and tyre clearance to the body or chassis.

Tyres with a higher speed rating and/or maximum load rating in excess of that listed are also acceptable as replacements provided they are fitted to a suitable rim size.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

You should replace your tyres when:

1. The tyres are worn to the point where the tread indicators appear, or the cord or fabric is showing.
2. The tread or side wall is cut, split, or cracked deep enough to expose the cord or fabric.
3. The tyre has a bump or bulge in it, indicating some kind of internal damage.
4. The tyre has a puncture, cut or other damage which can't be repaired because of the size or location of the damage.

If in doubt about the extent of damage to the tyre, have it removed from the wheel and examined by a tyre specialist.

If a pressure loss occurs while driving, do not attempt to drive on the deflated tyre more than is necessary to stop safely. Driving even a short distance on a deflated tyre can damage it and the wheel beyond repair.

When an object which has punctured the tyre is removed, repairs are to be made in accordance with the tyre manufacture's recommendations.

**CAUTION:**

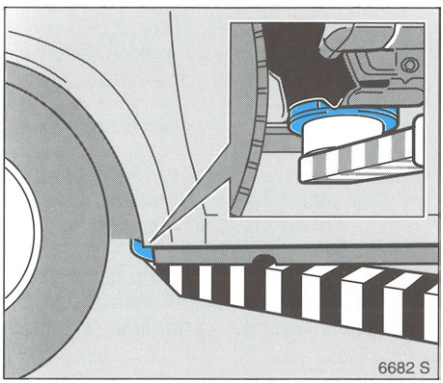
Tyres which have been repaired or retreaded will not be able to be operated safely at high speeds. Therefore, their use is not recommended.

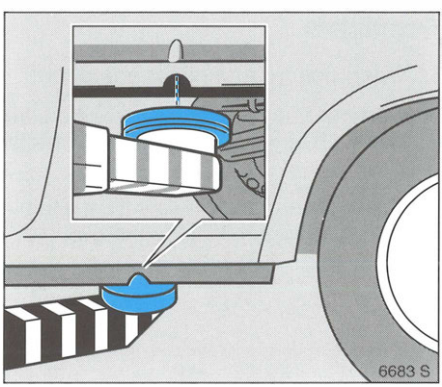
# TROLLEY JACK / HOIST LOCATIONS

You should always use the jack locations shown on page 6-7 when using the original jack supplied with your vehicle. This jack has been designed to correctly and safely lift your car, provided the cautions in Chapter 6 are observed.

However, if using a trolley jack or hoist to raise the vehicle, it is important that the jack be positioned as shown.

When using lifting or jacking equipment with metal jaws, use a rubber pad to avoid damaging the vehicle.



## BULB REPLACEMENT cont.

*When replacing a bulb, turn off the respective switch.*

*Do not touch bulbs with bare hands. Greasy fingers will cause stains which evaporate, eventually resulting in a dull light. Grease spots on Halogen bulbs will, within a short time lead to bulb failures. Inadvertently stained bulbs may be cleaned with tissue paper, or a clean, non-fuzzy cloth, using alcohol or white spirits.*

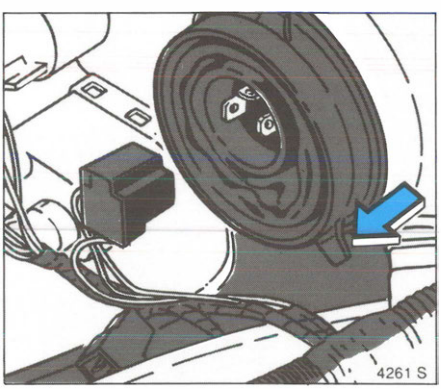
*When replacing bulbs do not exceed the wattage given on the bulb base.*

*Detailed procedures for headlight aiming are given in the relevant service manual for your vehicle. However, because headlight aiming is a safety item it is recommended that you have it carried out by your Holden Dealer.*

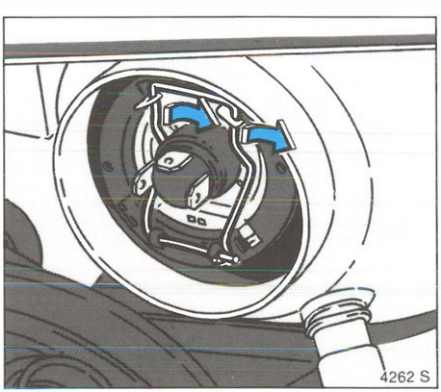
*To facilitate access to the front right lights remove the air duct by: rotating the yellow rotary fastener 90° with a coin, lifting and then removing the air duct from air cleaner housing. To reinstall, insert air duct into air cleaner housing and secure yellow fastener.*

### Headlights

1. Open bonnet and engage support.
2. Remove plug socket and wire from bulb base. Remove headlight protective cover.
3. Disengage spring wire clip from retaining lugs and swivel it to the side.



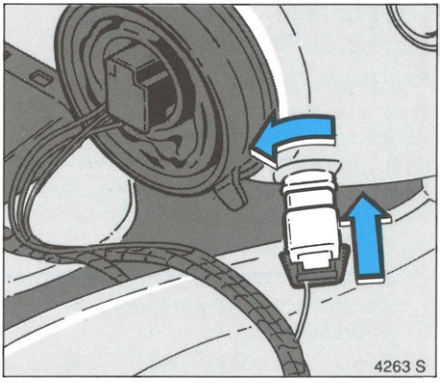

4. Remove bulb from reflector housing.
5. When installing new bulb, engage fixing lugs of bulb holder in recesses on reflector.



## BULB REPLACEMENT cont.

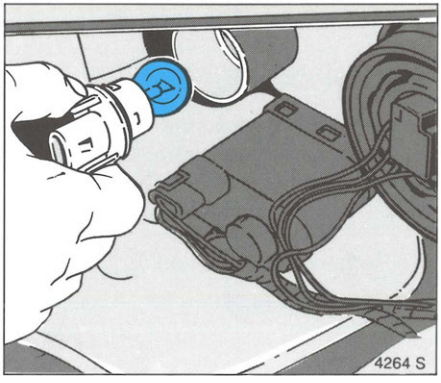
### Parking lights

1. Open bonnet and engage support.
2. Press bulb holder towards reflector, disengage by turning anticlockwise and remove.
3. Remove bulb from holder.
4. Insert new bulb.




### Front turn signal lights

1. Open bonnet and engage support.
2. Disengage bulb holder from turn signal light reflector by turning.
3. Remove bulb from holder.
4. Insert new bulb and engage holder again by turning.




### Front fog lights (if fitted), high mounted stop light (if fitted) and instrument lighting

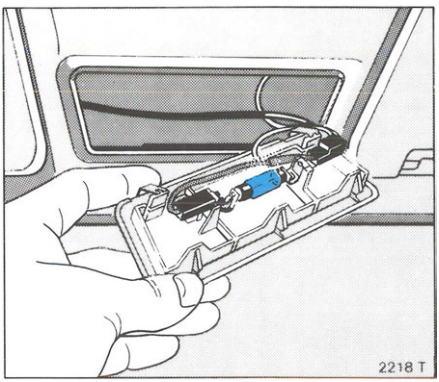
The work should preferably be carried out by a Holden Dealer.

## BULB REPLACEMENT cont.

### Interior light, glovebox light, luggage compartment light,

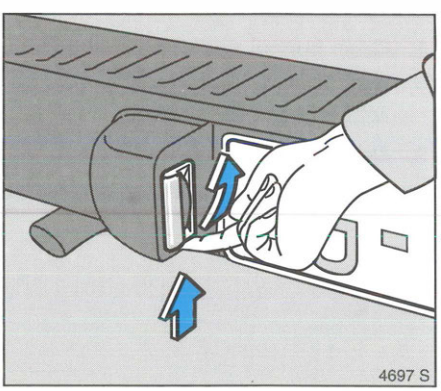
Before removing the interior light, close the doors so that the light is not live. Likewise, when removing the luggage compartment light, make sure that the contact switch is kept depressed so that the light is not live.

1. Prise lens out of recess,
   *If vehicle fitted with anti-theft system, only lever out the appropriate lens of the interior light.*
2. Press bulb slightly towards spring clip and remove.
3. Insert new bulb.



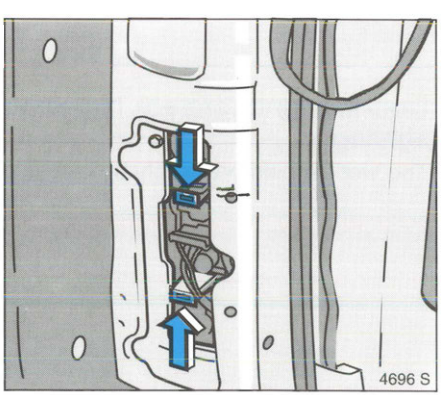

### Number plate light

1. Move light assembly up and down to disengage from bump stop.
2. Press tongue inwards and open light housing.
3. Remove bulb from holder.
4. Insert new bulb




### Tail, brake, rear turn signal, reverse lights, rear fog lights

1. Press retaining lugs at top and bottom of bulb mounting towards each other and remove bulb mounting.
2. Bulb sequence from top to bottom:
   Tail light / rear fog light
   Turn signal light
   Reverse light
   Brake light
3. Remove defective bulb from holder.
4. Insert new bulb and engage bulb mounting again (make sure that all locking elements engage).



## Notes

CHAPTER 8

# Specifications

Page


8-2 Engine specifications
8-3 Transmission specifications
8-3 Dimensions
8-3 Battery
8-3 Fuel
8-4 Identifications plates

# ENGINE SPECIFICATIONS

| | |
|---|---|
| **Engine type** | 1.4 litre, overhead cam |
| **No of cylinders** | 4 |
| **Piston displacement** | 1389 cc |
| **Oil specification** | ACEA classification A2 or A3,<br>viscosity grade 15W-40 or 15W-50 |
| **Refill oil capacity (including filter)** | 3.5 litres approx. |
| **Coolant capacity** | 5.8 litres approx. |
| **Coolant spec.** | 50% water and 50% long life coolant conforming to Holden's specification number HN 2217 |

# GENERAL SPECIFICATIONS

## Transmission

| | |
|---|---|
| | 5 speed manual |
| Refill oil capacity | 1.9 litres |
| Fluid specification | Refer to your Holden Dealer |

## Dimensions (mm)

| | |
|---|---|
| Overall length | 4,237 mm |
| Overall width | 2,009 mm |
| Overall height | 1,805 mm |
| Wheel base | 2,480 mm |
| Front track width | 1,396 mm |
| Rear track width | 1,427 mm |

## Battery

| | |
|---|---|
| Type | 12 volt |
| Amp. hour | 60 a. h. |

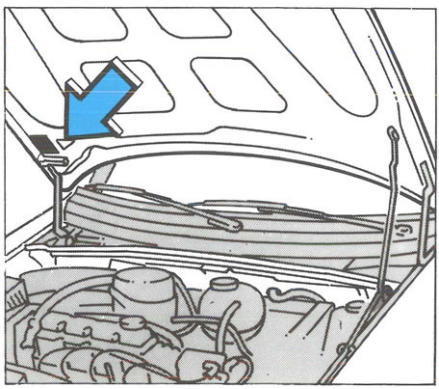
## Fuel

| | |
|---|---|
| Tank capacity | 50 litres |
| Fuel Type | Unleaded petrol |
| Octane rating | Use either 91 or 95 octane, dependant on fuel coding plug. Refer chaper 5. |

# IDENTIFICATION LABELS

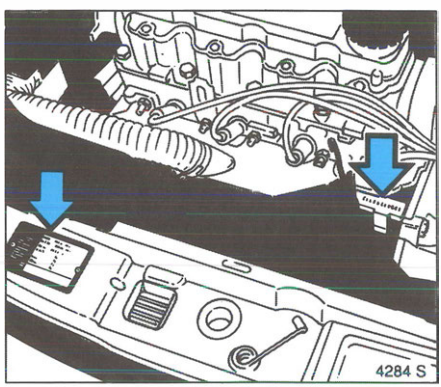
## Emission label

This label shows the relevant tune-up information required to maintain minimum exhaust emissions and is located on the underside of the bonnet.



## Engine number

Individual identification numbers are stamped onto the engine, near the engine oil dipstick.




## Body and option identification plate

The BODY AND OPTION IDENTIFICATION plate is located on the radiator support panel. Included on this plate is the built date of your vehicle, which is defined as "the date of manufacture" by calendar month and year in which the body shell and power train sub-assemblies are co-joined and the vehicle is driven or moved from the production line.

On later built vehicles this plate will be located on the flat side of the door lock pillar, visible when the door is open.

## Safety compliance plate

The SAFETY COMPLIANCE plate is located inside the engine bay, on the driver's side strut tower.

## Tyre placard

The TYRE PLACARD is located on the inside of the fuel filler flap.

# IDENTIFICATION LABELS

## Vehicle identification number (I.S.O.V.I.N.)

The individual I.S.O.V.I.N. number (example below) appears on the Body and Identification Plate. This number is used for identification of parts.

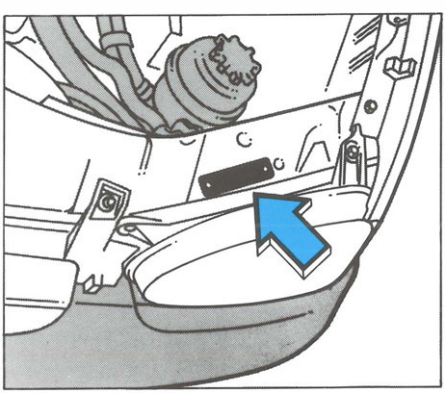
W0L 0 SB F25 X 3 123456

- 123456 — Sequential Production Serial Number
- 3 — Assembly Plant Code
- X — Model Year Code: V=1997, W=1998, X=1999
- F25 — Bodystyle: F25=Combo
- SB — S=model series, B=variant
- 0 — One zero (blank)
- W0L — World Manufacturer Identifier

## Holden Identification Plate

The Holden Identification Plate is located on the radiator support panel.

The Holden number is used for warranty identification, Roadside assist identification etc.



CHAPTER 9

# After Sales

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9-2 New Vehicle Warranty

9-4 Parts and Accessories Warranty

9-5 Warranty questions & answers

9-8 Roadside Assistance

9-10 Customer assistance

9-11 Authorised Holden Dealers


Note: Dealership names and details may change after the printing of this Handbook. The list contains both Authorised Holden Dealers and Authorised Holden Service Operations.

# NEW VEHICLE WARRANTY CERTIFICATE

## New Vehicle Warranty application

This Warranty is given by Holden Limited, A.C.N. 006 893 232, ("Holden"). The Warranty applies to the vehicle identified on the inside front cover of your Owner's Handbook. It is provided to the original and subsequent owners/operators driving the vehicle within Australia during the Warranty Period.
This warranty is given in addition to all rights conferred by law on that person.
Owners of vehicles operated outside Australia should consult their local dealer about the warranty applicable to their vehicle.

## Repairs covered

Subject to the exclusions shown below, this Warranty covers the correction, during the Warranty Period, of any vehicle defect related to materials or workmanship and advised to a Holden Dealer or Authorised Service Outlet, by repair or at Holden's option by replacement.

## Warranty period

Effective 1st January 1997, all new Holden badged passenger and light commercial vehicles delivered to customers will be covered by the Holden New Vehicle Warranty for 3 years or 100,000 km, whichever occurs first.

The coverage commences from the date of delivery (or in the case of a demonstrator vehicle the date when the vehicle was first placed into service by the Dealer). The coverage expires at the end of the period of 3 years after the commencement date or after the vehicle has travelled 100,000 kilometres, whichever occurs first.

## No charge

Warranty work undertaken (including parts and labour) will be carried out at no cost to the vehicle owner. However, this work should not be confused with servicing specified in the Maintenance schedule in Chapter 12 of your Owner's Handbook for which a charge is payable.

# NEW VEHICLE WARRANTY CERTIFICATE cont.

## Warranty exclusions

- **Damage**

Your Warranty does not extend to following causes of damage:
Damage caused by an accident, fire, theft or moving objects striking the vehicle.
Damage caused by industrial fallout, chemicals or sealants.
Damage caused by atmospheric fallout or flood, hail, salt, etc.

- **Maintenance items**

Services such as, brake adjustment, replacement of filters, wiper rubbers etc., which are required as part of normal vehicle maintenance.

- **Tyres**

The tyres (and tubes where applicable) fitted to your vehicle are not covered by this warranty. However, they may be covered by the tyre manufacturer.

- **Batteries**

Batteries are warranted for 12 months from the commencement date of the warranty.

- **Misuse**

The warranty does not cover damage caused by:

(a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc., or neglect
(b) operation of the vehicle after the defect is known
(c) failure to carry out proper maintenance services
(d) use of incorrect types and grades of fuel, oil or lubricants
(e) alteration of the vehicle by anyone not authorised by Holden
(f) fitting of parts or accessories not marketed by Holden
(g) any work carried out on the vehicle by anyone except an authorised Holden Dealer or Service Dealer

# PARTS AND ACCESSORIES WARRANTY

Holden warrants Holden approved Parts and Accessories ("Parts" and "Accessories") for the periods and on the conditions set out below. The Warranty covers the correction, during the relevant Warranty Period, of defects in any such Parts and Accessories, by repair or at Holden's option by replacement.

- **Accessories installed to the new vehicle**

  Holden approved Accessories installed by a Holden Dealer or authorised Service Outlet to the new vehicle at the time of purchase are covered together with the New Vehicle warranty for the period of 3 years or 100,000 km, whichever occurs first.

- **Parts and accessories installed after new vehicle delivery by a Holden Dealer or authorised Service outlet**

  Parts and Accessories are covered for 2 years or 50,000km (whichever occurs first). If the vehicle is still within the New Vehicle Warranty the Parts and Accessories are covered by the later of:

  2 years/50,000 km (whichever occurs first)

  or

  the end of the New Vehicle Warranty.

  As an example, an Accessory installed in a 7 month old car would be covered until the end of the New Vehicle Warranty; an Accessory installed in a 2½ year old car would be covered until the end of 4½ years or a further 50,000km from when the Accessory was installed.

- **Purchased at retail or trade**

  Parts and Accessories purchased at trade or retail and installed by other than a Holden Dealer or authorised Service Dealer are warranted for 1 year from the date of purchase. Please keep a receipt to support warranty claims.

- **Parts and accessories warranty exclusions**

  The tyres (and tubes where applicable) are not covered by this warranty. However, they may be covered by the tyre manufacturer.
  Batteries are warranted for 12 months from date of purchase.
  Parts which are required as part of normal vehicle maintenance are warranted against manufacturing defect at the time of installation.

# WARRANTY QUESTIONS

This section is designed to assist you in understanding the Holden Warranty provided with your new vehicle.

The following are some of the most frequently asked questions, for which detailed answers have been provided.

**Q 1. How do I go about obtaining Holden Warranty Service?**

It is the responsibility of the Selling Dealer to provide Holden Warranty service, therefore you should take your vehicle to the Selling Dealer whenever Holden Warranty service is needed. However, if this is not possible, you may go to any other Authorised Holden Dealer. The details recorded inside the front cover of this handbook will be required by the Dealer.

**Q 2. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the Holden New Vehicle Warranty?**

You should contact the nearest Authorised Holden Dealer or Holden Customer Assistance Service (refer further in this chapter) as soon as possible, and arrange for that Dealer to carry out the required Holden Warranty Service.

**Q 3. What should I do if, in an emergency, Holden Warranty service is required and an Authorised Holden Dealer is not available to provide such service at the time?**

If, in an emergency, a repair, replacement or adjustment (covered by the Holden New Vehicle Warranty) is required to enable your vehicle to be operated safely and it is not practical for you to go to an Authorised Holden Dealer, the service (to the extent that it is necessary to enable your vehicle to be operated safely) may be performed by any other qualified mechanic or repairer. A claim for the reasonable cost may be made through the Authorised Holden Dealer who would normally provide you with Holden Warranty Service. You must also take your vehicle to the Authorised Holden Dealer for inspection of the service and/or completion of any required Holden Warranty Service, as soon as possible.

Note: During normal business hours you should seek authorisation from your nearest Authorised Holden Dealer or Holden Customer Assistance Service, prior to repairs being commenced.

**Q 4. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the Holden Warranty?**

No, these items are not covered. Holden warranty only covers the repair, replacement or adjustment of those parts of your vehicle which are found to be defective in materials or workmanship. No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your vehicle, will be recognised under the Holden New Vehicle Warranty.

You may have rights under the law to claim compensation outside of the Holden New Vehicle Warranty, but any claim based on those rights should be separately pursued.

## WARRANTY QUESTIONS

### Q 5. Will I have to pay for maintenance costs during the Warranty Period?

Maintenance costs are not covered by the Holden New Vehicle Warranty. The Maintenance Schedules in this handbook specify the *minimum* maintenance required for your vehicle operating under normal conditions.

The Maintenance items (except where they are required as a result of defects in materials or workmanship) for which you will have to pay for include:

- Engine tune-up, including spark plugs replacement.
- Replacement of all filters, engine and other belts, hoses, wiper blades, clutch linings.
- Cleaning or flushing of fuel, coolant, brake, engine, transmission, differential, power steering etc., after 1,500 km.
- Carbon and sludge removal.
- Maintenance servicing of emission control system devices.
- Adding to (or replacing) lubricants.
- Adding to (or replacing) air conditioning refrigerant, after 1,500 km.
- Any necessary adjustments to drive belts, transmissions, clutch, park brake etc.
- Wheel balancing - after 5,000 km.
- Wheel alignment.
- De-dusting or de-glazing of brake linings or pads - after 1,500 km.
- Brake lining wear or damage.
- Brake disc pad or disc wear.
- Battery recharging.
- Paint, bright metal finish and trim, due to normal deterioration.
- Body panel adjustment - after 1,500 km.
- Door, or bonnet lock adjustments.
- Glass or channel adjustments - after 1,500 km.
- Body rattle, squeaks and general tightening of bolts, fasteners and fittings - after 1,500 km.
- Chipped glass or breakage.
- Torn or damaged floor mats or carpets.
- Normal wear and tear to trim components.

### Q 6. Are my tyres covered by the Holden New Vehicle Warranty?

No. The tyres fitted to your vehicle are covered by a separate warranty provided by the tyre manufacturer. Any Authorised Holden Dealer will assist you by discussing any queries which you might have with respect to the tyre manufacturer's warranty with the tyre manufacturer's representative.

# WARRANTY QUESTIONS

**Q 7. Will I have to pay for any costs or expenses in connection with the provision of Holden Warranty service?**

All parts and labour used in carrying out Holden Warranty Service at the premises of the Servicing Dealer are free of charge. Whenever Holden Warranty service is to be carried out by the Servicing Dealer it is your responsibility to deliver your vehicle to the Servicing Dealer's premises.

If, as a result of a defect which is covered by the Holden New Vehicle Warranty, your vehicle cannot be driven safely and you arrange for the nearest Authorised Holden Dealer to carry out the required Holden Warranty Service, Holden will accept reasonable towing costs to move your vehicle to the nearest Holden Dealer's premises. Before employing a towing company, contact the nearest Holden Dealer and/or Holden Customer Assistance Service (refer page 10 of this chapter) to obtain guidance.

**Q 8. Would my vehicle's engine benefit from fuel additives, oil additives or coolant additives not marketed by Holden ?**

The use of break-in oil, tune-up compounds, friction-reducing compounds and other supplemental additives is not recommended; their use will not only increase operating costs, but may also be detrimental to the operation of your vehicle.

Only the fluids and lubricants referred to in this handbook should be used.

## UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN PRODUCTS

No Holden Dealer or other person is authorised or permitted to give or make any statement assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any Holden product or in connection with the supply of any Holden product, which is at variance with any written statement assertion or undertaking on any of these subjects given or made by Holden in its published sales literature, and the Company does not accept any such unauthorised action.

# ROADSIDE ASSISTANCE

## 3 YEAR
## 24 HOUR ROADSIDE ASSISTANCE

### Our commitment to your satisfaction

Holden's Roadside Assistance is part of the unequalled commitment by Holden to provide total motoring satisfaction.

From the moment delivery is made, our aim is to provide the finest possible ownership experience, from design through manufacturing to servicing and now beyond to the open road, Australia wide.

We hope the need never arises, but if it does, we'll be there to help through Holden Roadside Assistance.

### How does Holden Roadside Assistance work?

Holden Roadside Assistance is provided by Holden Limited., and delivered by the collective resources of the Australian Automobile Clubs and Associations (the constituents of Assist Australia) the AA.

### Which vehicles are covered by the service?

As of 1st November 1993 all new Holden passenger and light commercial vehicles are covered for 36 months.

Holden Roadside Assistance is extended to private and business vehicles, taxis, rental companies, all government and fleet operators.

### What will Holden Roadside Assistance do for me?

Holden Roadside Assistance is designed to get you mobile on any road that is trafficable to normal two wheel drive vehicles. In the event of the unexpected happening, from your keys being locked in your car to mechanical and accident advice, help is readily available by simply calling the toll free number 1800 817 100.

All Holden luxury vehicles receive the added benefits of Holden Roadside Ultra Assist which includes accommodation, alternative transport, rental car, assistance in case of accident, theft and medical emergency and Australia wide vehicle recovery.

### Can I upgrade to Roadside Ultra assist?

Yes, owners can upgrade to Holden Roadside Ultra Assistance for a fee by dialling 1800 645 668.

# ROADSIDE ASSISTANCE cont.

## When do the benefits begin?

Cover begins from the date of first registration. An interim card entitles you to immediately receive all the benefits of Holden Roadside Assistance.

## Where can I get Roadside Assistance?

Holden Roadside Assistance is available to you at home, or at the roadside, anywhere in Australia, should you need it.

## Is there a membership or joining fee?

No, Holden Roadside Assistance is complimentary with every new Holden passenger vehicle and light commercial vehicle for 36 months from the date of first registration.

## What will Holden Roadside Assistance cost me?

Materials, fuel and spare parts must be paid for at the time of service. The service personnel attending will issue a receipt for these expenses. Reimbursement of expenses covered by Holden's warranty can be claimed by contacting the local dealer.

## What happens if I sell my vehicle?

Holden Roadside Assistance stays with the vehicle, so if you sell your vehicle during the 36 month period, it is still eligible for the service. The new owner simply registers for the service by using the change of ownership form supplied in the Roadside Assistance booklet.

## How do I call for assistance?

Simply call Holden Roadside Assistance toll free on 1800 817 100 from anywhere in Australia. For further information regarding the service and full terms and conditions, refer to the Roadside Assistance Kit in the glovebox or call the toll free Customer Assistance Service Line on 1800 033 349.

# CUSTOMER ASSISTANCE

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation or servicing of your vehicle will be handled by your Dealer's Sales and Service Department.

We realize however, that, with the best intentions, misunderstandings do occur sometimes.

Therefore, we suggest you discuss any concern with one of the Dealer's management people. If you haven't received satisfaction from the Sales Manager or Service Manager - go to the General Manager or to the Dealer himself.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

The Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is 9646 5466. Outside the Melbourne Metropolitan area, the number is 1800 03 3349.

If your concern relates to parts/accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden Service Parts Operations on (03) 9797 7341

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne, 3001.

Your letter should clearly outline your concern or query, and include the following:

- Your name and address
- Telephone numbers, both private & business
- Servicing Dealership's name and address
- Vehicle model
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of this Handbook.
- Date of purchase
- Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of this handbook.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

# AUSTRALIAN HOLDEN DEALERS

## N.S.W. Metropolitan

**ARNCLIFFE**
Suttons Motors Arncliffe P/L
93 Princes Highway
P: (02) 9335 9000 FAX: (02) 9335 9006

**ASHFIELD**
Muirs Holden
252 Parramatta Road
P: (02) 9798 8888 Fax: (02) 9799 7010

**BALGOWLAH**
Peninsula Holden
164 Condamine Street
P: (02) 9949 1888 FAX (02) 9949 7237

**BANKSTOWN**
Princeton Holden
466 Chapel Road
P: (02) 9790 1234 Fax: (02) 9790 0033

**BLACKTOWN**
West City Holden
120~128 Sunnyholt Road
P: (02) 9622 7333 Fax: (02) 9671 7394

**CAMPBELLTOWN**
Paul Wakeling Holden
Cnr Blaxland & Campbelltown Rds
P: (046) 281 444 Fax: (046) 283 262

**CASTLE HILL**
Windsor Road Holden
Cnr Victoria Ave/Windsor Rd
P: (02) 9894 6666 Fax: (02) 9894 5600

**CHATSWOOD**
Sundell Holden
Cnr Smith & Gibbes Street
P: (02) 9417 8431

**CHULLORA**
Suttons Motors (Chullora) P/L
Cnr Hume Hwy/Waterloo Rd
P: (02) 9642 0233 Fax: (02) 9642 7798

**DEE WHY**
Peninsula Holden
Cnr May & Mooramba Roads
P: (02) 9982 1311 Fax: (02) 9982 3755

**EAST SYDNEY**
Suttons City Holden
137-157 Bourke Street
P: (02) 9357 4222 Fax: (02) 9358 5542

**GORDON**
Sundell Holden
Cnr Pacific Hwy/McIntyre St
P: (02) 9498 7766 Fax: (02) 9498 2906

**HOMEBUSH**
Suttons Motors Homebush P/L
112 Parramatta Road
P: (02) 9746 4500 Fax: (02) 9746 7206

**LAKEMBA**
Fulton Holden Lakemba
817 Canterbury Road
P: (02) 9740 5555 Fax: (02) 9740 5907

**LANSVALE**
Lansvale Holden
266~284 Hume Highway
P: (02) 9728 7333 Fax: (02) 9726 1085

**LIVERPOOL**
McGrath Holden
411~419 Hume Highway
P: (02) 9821 5000 Fax: (02) 9821 1993

**NEWPORT**
Newport Car Care Centre
340 Barrenjoey Road
P: (02) 9999 1254

**PARRAMATTA**
Boyded Holden Parramatta
65 Church Street
P: (02) 9204 6666 Fax: (02) 9635 6346

**PENNANT HILLS**
Barry Smith Holden
343~355 Pennant Hills Road
P: (02) 9481 8222 Fax: (02) 9484 7475

**PENRITH**
Penrith City Holden
Cnr Henry St & Macquarie Pl
P: (02) 4732 1966 Fax: (02) 4721 5896

**ROCKDALE**
Fulton Holden Rockdale
571 Princes Hwy
P: (02) 9567 0321 Fax: (02) 9597 7395

**ROSEBERY**
Suttons City Holden
Link Road
P: (02) 9931 3000 Fax: (02) 9931 3001

**RYDE**
Hunter Holden
603~605 Victoria Road
P: (02) 9808 9123 Fax: (02) 9809 6592

**SPRINGWOOD**
Springwood Holden
15 Ferguson Road
P: (02) 4751 1911 Fax: (02) 4751 2481

## AUSTRALIAN HOLDEN DEALERS cont.

**ST LEONARDS**
Hunter Holden
4 Herbert Street
P: (02) 9906 4044 Fax: (02) 9439 4635

**ST. MARY'S**
John Young Holden
Cnr Glossop & Harris Streets
P: (02) 9673 2111 Fax: (02) 9673 4932

**SUTHERLAND**
Greg Ball Holden
499~505 Princes Highway
P: (02) 9545 4811 Fax: (02) 9545 2533

**WAITARA**
Suttons Motors Waitara P/L
90 Pacific Hwy
P: (02) 9487 2222 Fax: (02) 9489 0009

**WINDSOR**
Hawkesbury Valley Holden
18 Macquarie Street
P: (02) 4577 4077 Fax: (02) 4577 2592

### N.S.W. Country

**ARMIDALE**
New State Motors
103 Rusden Street
P: (02) 6772 9444 Fax: (02) 6772 5836

**BALLINA**
Quayside Motors
Pacific Highway
P: (02) 6686 5111 Fax: (02) 6686 8574

**BARHAM**
Hall's Motors Pty Ltd
44 Noorong Street
P: (03) 5453 2092 Fax: (03) 5453 1064

**BATEMAN'S BAY**
Surfair Holden
30-32 Orient Street
P: (044) 725 111

**BATHURST**
Bathurst Holden
54 Durham Street
P: (02) 6331 2077 Fax: (02) 6331 9177

**BEGA**
Bega Valley Holden
Cnr Upper and Gipps Sts
P: (02) 6492 2333 Fax: (02) 6492 3105

**BLAYNEY**
Alan May Auto. Services
98 Adelaide Street
P: (063) 682 745 Fax: (063) 683 257

**BOMBALA**
Delcott Engineering Pty Ltd
Maybe Street
P: (02) 6458 3341 Fax: (02) 6458 3940

**BOOROWA**
Boowowa Auto Repairs
40 Marsden Street
P: (063) 853 305

**BREWARRINA**
Lukas Holden
Bathurst Street
P: (02) 6839 2105 Fax: (02) 6839 2454

**BROKEN HILL**
Donlee Motors Pty Ltd
Cnr Galena & Rakow Streets
P: (08) 8087 2463 Fax: (08) 8087 7971

**CANOWINDRA**
Canowindra Motors
Gaskill Street
P: (02) 6344 1105 Fax: (02) 6344 1105

**CARDIFF**
Brian Kelly Holden
35~39 MacQuarie Road
P: (02) 4954 7733 Fax: (02) 4954 9407

**CASINO**
Casino Holden
142 Barker Street
P: (02) 66)62 2822 Fax: (02) 6662 2101

**CESSNOCK**
Geoff Boyd Holden
Cnr Wollombi Road and Darwin Street
P: (02) 4990 3800 Fax: (02) 4991 1544

**COBAR**
Cobar Holden
Cnr Lewis St & Louth Road
P: (02) 6836 4005 Fax: (02) 6836 3409

**COFF'S HARBOUR**
Geoff King Holden
Cnr Pacific Hwy and Thompson Road
P: (02) 6652 2288 Fax: (02) 6652 5360

**COOMA**
Summit Holden
66~70 Sharp Street
P: (02) 6452 1077 Fax: (02) 6452 1142

## AUSTRALIAN HOLDEN DEALERS cont.

**COONABARABRAN**
Coonabarabran Holden
24 Charles Street
P: (02) 6842 1499 Fax: (02) 6842 2473

**COONAMBLE**
Moody's Motors
37 Aberford Street
P: (02) 6822 1161 Fax: (02) 6822 1624

**COOTAMUNDRA**
Jenkins Garage
111 Wallendoon Street
P: (02) 6942 2522 Fax: (02) 6942 1493

**COWRA**
Waugoola Motors Pty Ltd
Kendal Street
P: (02) 6342 1800 Fax: (02) 6342 3614

**CROOKWELL**
Crookwell Autos
114 Goulburn Street
P: (02) 4832 1433 Fax: (02) 4832 2157

**DENILIQUIN**
Burchfield Bros & Co
112~114 End Street
P: (03) 5881 2133 Fax: (03) 5881 3322

**DORRIGO**
Phil Noble Motors
46~48 Hickory Street
P: (02) 6657 2017 Fax: (02) 6657 2217

**DUBBO**
John Kierath
54 Bourke Street
P: (02) 6882 1011 Fax: (02) 6882 7102

**DUNGOG**
Turner Holden
248 Dowling Street
P: (02) 4992 1816 Fax: (02) 4992 1833

**EDEN**
Ron Doyle
113 Princes Highway
P: (02) 6496 1420 Fax: (02) 6496 1467

**FINLEY**
Riverina Garage Finley
104 Murray Street
P: (03) 5883 1211 Fax: (03) 5883 1638

**FORBES**
Frank Spice Holden
20~22 Dowling Street
P: (02) 6851 1755 Fax: (02) 6852 2825

**GATESHEAD**
Brian Kelly Holden
9 Oakdale Road
P: (02) 4920 7000 Fax: (02) 4920 7001

**GILGANDRA**
Gilgandra Holden
3 Morris Street
P: (02) 6847 1888 Fax: (02) 6847 1277

**GLEN INNES**
Glen Severn Holden
167 Grey Street
P: (02) 6732 2888 Fax: (02) 6732 3394

**GOSFORD**
Noble Holden
Pacific Highway
P: (02) 4325 0511 Fax: (02) 4324 1043

**GOULBURN**
Geissler Motors
279~298 Auburn Street
P: (02) 4821 3744 Fax: (02) 4821 9798

**GRAFTON**
Ken Casson Holden
37~39 Turf Street
P: (02) 6642 6666 Fax: (02) 6642 6737

**GRENFELL**
Terry Carroll Motors Pty Ltd
40 Alexandra Street
P: (02) 6343 1522 Fax: (02) 6343 1347

**GRIFFITH**
Leo Franco Holden
164~166 Yambil Street
P: (02) 6964 2977 Fax: (02) 6962 4916

**GUNNEDAH**
Namoi Valley Motors
48 Barber Street
P: (02) 6742 0211 Fax: (02) 6742 3842

**GUNNING**
Bailey's Garage
Yass Street
P: (048) 451 224 Fax: (048) 451 486

**HARDEN**
Ginty & O'Leary
Cnr Station & Albury Streets
P: (02) 6386 2320 Fax: (02) 6386 2722

**HAY**
Royce Curtis Motors
168 Lachlan Street
P: (02) 6993 1503 Fax: (02) 6993 2212

## AUSTRALIAN HOLDEN DEALERS cont.

**HOLBROOK**
Lieschke Motors Pty Ltd
78 Albury Street
P: (02) 6036 2244 Fax: (02) 6036 2831

**INVERELL**
Gaukroger Sales Pty Ltd
Vivian Street
P: (02) 6722 2722 Fax: (02) 6722 1804

**JERILDERIE**
Jerilderie Motors
Jerilderie Street
P: (03) 5886 1302 Fax: (03) 5886 1734

**KANDOS**
Chrisfield Holden
11 Angus Street
P: (02) 6379 4204 Fax: (02) 6379 4606

**KATOOMBA**
Katoomba Holden
136 Great Western Highway
P: (02) 4782 2066 Fax: (02) 4782 6221

**KEMPSEY**
Thoroughgood Holden
118~132 Belgrave Street
P: (02) 6562 1381 Fax: (02) 6562 1383

**KIAMA**
Glen Fulton Holden
35~41 Collins Street
P: (02) 4232 1888 Fax: (02) 4232 3062

**KYOGLE**
O & H Holden
128~134 Summerland Way
P: (02) 6632 1711 Fax: (02) 6632 2552

**LEETON**
John Ryan Holden
47~51 Pine Avenue
P: (02) 6953 2466 Fax: (02) 6953 6725

**LISMORE**
John Chant Motors Pty Ltd
21~27 Carrington Street
P: (02) 6621 2601 Fax: (02) 6622 4659

**LITHGOW**
Lithgow City Holden
255 Main Street
P: (02) 6351 4555 Fax: (02) 6351 4653

**MACKSVILLE**
Eastland Auto Centre
18~22 Cooper Street
P: (02) 6568 1711 Fax: (02) 6568 1816

**MACLEAN**
O'Halloran Motors
175 River Street
P: (02) 6645 2844 Fax: (02) 6645 4003

**MAITLAND**
Heritage Holden
Cnr New England Hwy & Bungaree St
P: (02) 4932 0779 Fax: (02) 4932 0473

**MOREE**
Keith Haddad Holden
Cnr Boston & Heber Streets
P: (02) 6752 1855 Fax: (02) 6752 1298

**MORUYA**
Surfair Holden
88 Vulcan Street
P: (02) 4474 2555 Fax: (02) 4474 2129

**MOSS VALE**
Moss Vale Holden
160~162 Argyle Street
P: (02) 4868 1055 Fax: (02) 4868 3330

**MULLUMBIMBY**
Tony Carsburg Holden
2 Argyle Street
P: (02) 6684 2066 Fax: (02) 6684 2066

**MUDGEE**
Ross Granata Motors
32 Sydney Road
P: (02) 6372 1766 Fax: (02) 6372 3735

**MURWILLUMBAH**
Tweed Motors Murwillumbah
29 Prospero Street
P: (02) 6672 4444 Fax: (02) 6672 5811

**MUSWELLBROOK**
Upper Hunter Motors Pty Ltd
116 Bridge Street
P: (02) 6543 2577 Fax: (02) 6543 2565

**NAMBUCCA HEADS**
Nambucca Holden
Mann Street
P: (065) 689 477 Fax: (065) 689 477

**NARRABRI**
Allan Cooper Holden
181 Maitland Street
P: (02) 6792 3488 Fax: (02) 6792 4750

**NARROMINE**
Terry Green Holden
45~51 Dandaloo Street
P: (02) 6889 1244 Fax: (02) 6889 2277

## AUSTRALIAN HOLDEN DEALERS cont.

**NEWCASTLE**
Newcastle City Holden
King Street (Cnr Stewart Ave)
P: (02) 4961 5301 Fax: (02) 4961 6485

**NOWRA**
Glendon Motors Holden
301~313 Princes Highway
P: (02) 4421 0144 Fax: (02) 4423 0854

**ORANGE**
Canobolas Holden
348 Summer Street
P: (02) 6362 0155 Fax: (02) 6361 3702

**PARKES**
Broderick Motors Holden
Cnr Mitchell & Clarinda Sts
P: (02) 6862 2266 Fax: (02) 6862 1406

**PEAK HILL**
S. Leary & Sons Pty Ltd
Mingelo Street
P: (02) 6869 1459 Fax: (02) 6869 1999

**PORT MACQUARIE**
Bob Todd Motors Pty Ltd
115 Gordon Street
P: (02) 6583 1100 Fax: (02) 6584 9508

**QUIRINDI**
Browning Motors
82 Henry Street
P: (02) 6746 1666 Fax: (02) 6746 1422

**SCONE**
Upper Hunter Motors (Scone)
100 Liverpool Street
P: (065) 451 355

**SINGLETON**
Lancaster Holden
80 John Street
P: (02) 6578 8700 Fax: (02) 6578 8733

**TAMWORTH**
Kensell's Holden
Cnr Bourke St & Kable Ave
P: (02) 6766 6699 Fax: (02) 6766 7339

**TAREE**
Hardes Holden
21~25 Victoria Street
P: (02) 6552 2222 Fax: (02) 6552 1269

**TEMORA**
Rod Lovering Holden
607-608 Stockinbingal Road
P: (02) 6977 2255 Fax: (02) 6977 2033

**TENTERFIELD**
Sexton & Green (Sales & Service) P/L
148 Rouse Street
P: (02) 6736 1855 Fax: (02) 6736 1946

**TUNCURRY**
Great Lakes Holden
144 Manning Street
P: (065) 556 644

**TWEED HEADS**
Tweed Motors Pty Ltd
75~79 Pacific Highway
P: (075) 363 411 Fax: (075) 364 490

**ULLADULLA**
Alan May Holden
169 Princes Highway
P: (02) 4455 1166 Fax: (02) 4455 4122

**WAGGA WAGGA**
Wagga Motors Pty Ltd
32 Dobney Avenue
P: (02) 6925 3411 Fax: (02) 6925 3283

**WALCHA**
Bowden's Garage Pty Ltd
Derby Street
P: (02) 6777 2226 Fax: (02) 6777 2319

**WALGETT**
Walgett Garage Pty Ltd
81 Wee Waa Street
P: (02) 6828 1088 Fax: (02) 6828 1198

**WALLA WALLA**
D.E. Lieschke & Son Pty Ltd
63 Commercial Road
P: (02) 6029 2202 Fax: (02) 6029 2134

**WARIALDA**
Roger Moore
Hope Street
P: (02) 6729 1570 Fax: (02) 6729 1104

**WARILLA**
Wilson's Holden
29 Shellharbour Road
P: (02) 4295 1223 Fax: (02) 4296 1007

**WARREN**
Fuller Bros
Dubbo Street
P: (02) 6847 4978 Fax: (02) 6847 4477

**WEE WAA**
Allan Cooper Holden
Rose Street
P: (067) 954 255

## AUSTRALIAN HOLDEN DEALERS cont.

**WELLINGTON**
Gersbach's Garage Pty Ltd
92 Lee Street
P: (02) 6845 2733 Fax: (02) 6845 3236

**WEST WYALONG**
West Wyalong Motors
183 Main Street
P: (02) 6972 2388 Fax: (02) 6972 2570

**WOLLONGONG**
Dwyers City Holden
31~33 Crown Street
P: (02) 4229 9222 Fax: (02) 4229 5105

**WYONG**
Barry Robertson Holden
172 Pacific Highway
P: (02) 4351 2588 Fax: (02) 4352 1759

**YASS**
Bill Nesbitt Holden
221 Comur Street
P: (02) 6226 1866 Fax: (02) 6226 1747

**YOUNG**
Harden & Geelan Holden
48 Boorowa Street
P: (02) 6382 1155 Fax: (02) 6382 4673

### A.C.T.

**BELCONNEN**
Gerald Slaven Holden
Josephson Street
P: (02) 6251 5111 Fax: (02) 6253 1298

**BRADDON**
Rolfe Holden
44 Mort Street
P: (02) 6248 7888 Fax: (02) 6257 1328

**PHILLIP**
Commonwealth Motors Pty Ltd
158 Melrose Drive
P: (02) 6282 3522 Fax: (02) 6282 5214

### Tas.

**BURNIE**
Motors Burnie
Marine Terrace
P: (03) 6431 1122 Fax: (03) 6431 3146

**DEVONPORT**
Motors Devonport
Victoria Parade
P: (03) 6424 4033 Fax: (03) 6424 5249

**HOBART**
Motors Pty Ltd
179 MacQuarie Street
P: (03) 6220 1171 Fax: (03) 6223 8117

**KING ISLAND**
King Island Motors Pty Ltd
Netherby Road, Currie
P: (03) 6462 1155 Fax: (03) 6462 1488

**LAUNCESTON**
Motors Launceston
93~95 Elizabeth Street
P: (03) 6332 9101 Fax: (03) 6334 5245

**SMITHTON**
Motors Smithton
Cnr Nelson & Gibson Street
P: (03) 6452 1241 Fax: (03) 6452 3123

**ULVERSTONE**
Motors Ulverston
97~101 Reibey Street
P: (03) 6425 2277 Fax: (03) 6425 2610

### Vic. Metropolitan

**BERWICK**
Barry Bourke Holden
755 Princes Highway
P: (03) 9707 2222 Fax: (03) 9707 3091

**BUNDOORA**
Watson Holden
413 Grimshaw Street
P: (03) 9467 4677 Fax: (03) 9467 5744

**BURWOOD**
Penfold Holden
142 Burwood Highway
P: (03) 9268 1333 Fax: (03) 9268 1335

**CHELSEA**
Harrison Holden
370 Nepean Highway
P: (03) 9772 2233 Fax: (03) 9772 2190

**CHELTENHAM**
Booran Holden
1212 Nepean Highway
P: (03) 9584 3333 Fax: (03) 9584 4285

**DANDENONG**
Booran Holden
17 Lonsdale Street
P: (03) 9794 5455 Fax: (03) 9793 7001

**DONCASTER**
Doncaster Holden
636~640 Doncaster Road
P: (03) 9840 0188 Fax: (03) 9840 2587

## AUSTRALIAN HOLDEN DEALERS cont.

**ELSTERNWICK**
Reg Hunt Holden
63 Nepean Highway
P: (03) 9528 2222 Fax: (03) 9528 1088

**ESSENDON**
Preston Motors (Essendon) P/L
205~211 Keilor Road
P: (03) 9374 2888 Fax: (03) 9379 6754

**FAWKNER**
Mantello Holden
1263 Sydney Road
P: (03) 9359 1333 Fax: (03) 9359 9334

**FERNTREE GULLY**
Ferntree Gully Holden
980 Burwood Highway
P: (03) 9758 2222 Fax: (03) 9758 3435

**FOOTSCRAY**
Alan Mance Holden
435 Barkly Street
P: (03) 9687 4222 Fax: (03) 9687 7529

**FRANKSTON**
Bay City Holden
140 Dandenong Road
P: (03) 9784 4444 Fax: (03) 9784 4419

**GEELONG**
R & B Smith Holden
510 Moorabool Street
P: (03) 5222 2888 Fax: (03) 5221 3114

**GEELONG**
Winter & Taylor (Sales) P/L
23 Cavendish Street
P: (03) 5222 1811 Fax: (03) 5221 1873

**GLENHUNTLY**
Booran Holden
1234 Glenhuntly Road
P: (03) 9571 9313 Fax: (03) 9571 8374

**GLEN WAVERLEY**
Geoff Brady Holden
565~577 Springvale Road
P: (03) 9550 5888 Fax: (03) 9550 5855

**LILYDALE**
Heritage Holden
344 Main Street
P: (03) 9735 5566 Fax: (03) 9735 1040

**MELTON**
Alan Mance Holden
1 Holland Drive
(03) 9746 9666 Fax: (03) 9746 9555

**MORNINGTON**
John Collins Holden
976 Nepean Highway
P: (03) 5975 4433 Fax: (03) 5975 4720

**OAKLEIGH**
Garry & Warren Smith
1575 Dandenong Road
P: (03) 9568 6333 Fax: (03) 9568 5691

**PRESTON**
Ralph D'Silva Holden
573~603 High Street
P: (03) 9471 0500 Fax: (03) 9478 4210

**RINGWOOD**
Patterson Cheney Holden
45~57 Maroondah Highway
P: (03) 9262 6666 Fax: (03) 9870 1113

**SOUTH MELBOURNE**
South City Holden
380 City Road
P: (03) 9627 3333 Fax: (03) 9686 5836

**SOUTH YARRA**
Penfold Holden
681 Chapel Street
P: (03) 9827 2272 Fax: (03) 9826 5328

**SUNBURY**
Sunbury Holden
93~95 Horne Street
P: (03) 9740 3000 Fax: (03) 9740 4777

**SUNSHINE**
Kevin Dennis Holden
272 Ballarat Road
P: (03) 9292 9292 Fax: (03) 9292 9200

**WERRIBEE**
Ballan Holden
56 Princes Highway
P: (03) 9741 2222 Fax: (03) 9742 3797

**WEST MELBOURNE**
Reg Hunt Holden
577 King Street
P: (03) 9329 6611 Fax: (03) 9329 1550

### Vic. Country

**ALEXANDRA**
GK & JH Radford
79 Greints Street
P: (03) 5722 1588 Fax: (03) 5722 1978

**ARARAT**
David Reid Motors
High Street
P: (03) 5352 4100 Fax: (03) 5352 4388

## AUSTRALIAN HOLDEN DEALERS cont.

**BAIRNSDALE**
The Big Garage
199 Main Street
P: (03) 5152 4131 Fax: (03) 5152 5313

**BALLARAT**
Peter Amor Motors
211 Gillies Street
P: (03) 5339 9333 Fax: (03) 5339 9202

**BENALLA**
Arnott's Motors
88~90 Bridge Street
P: (03) 5762 2500 Fax: (03) 5762 1586

**BENDIGO**
Ron Poyser Holden
Cnr High & Myrtle Streets
P: (03) 5442 3999 Fax: (03) 5442 7766

**BIRCHIP**
R.L. & C.J. Bales
38 Cumming Avenue
P: (03) 5492 2543

**BOORT**
Jaron Motors
55 Godfrey Street
P: (034) 552 008 Fax: (034) 552 008

**CAMPERDOWN**
Camperdown Auto Parts
96 Manifold Street
P: (03) 5593 1983 Fax: (03) 5593 1979

**CASTERTON**
Coxons Holden
139 Henty Street
P: (03) 5581 1166 Fax: (03) 5581 2116

**CHARLTON**
K.V. Charlton
70 High Street
P: (03) 5491 1444 Fax: (03) 5491 1984

**COBRAM**
Neville Mustica Motors
Murray Valley Hwy
P: (03) 5872 1666 Fax: (03) 5872 1920

**COHUNA**
Hare Motors Holden
105~107 King George Street
P: (03) 5456 4488 Fax: (03) 5456 4448

**COLAC**
Parker Bros. Motor Co
224 Murray Street
P: (03) 5231 5533 Fax: (03) 5231 3853

**DAYLESFORD**
K.R. Little
Vincent Street
P: (03) 5348 2248

**DIMBOOLA**
Westerfield Motors Pty Ltd
64 Lloyd Street
P: (03) 5389 1302

**DONALD**
O.A. Shilton & Sons Pty Ltd
5 Woods Street
P: (03) 5497 1400 Fax: (03) 5497 1505

**ECHUCA**
Echuca Motors
1 Nothern Highway
P: (03) 5482 1522 Fax: (03) 5480 6215

**FOSTER**
Ray Dower Motors
78 Main Street
P: (03) 5682 2404

**HAMILTON**
Peter Sandow Motors Pty Ltd
210 Gray Street
P: (03) 5572 1433 Fax: (03) 5571 1182

**HOPETOUN**
Hopetoun Motors
78 Lascelles Street
P: (03) 5083 3143 Fax: (03) 5083 3290

**HORSHAM**
Ivan Morrow Motors Pty Ltd
22 O'Callaghans Street
P: (03) 5382 0185 Fax: (03) 5382 0459

**KANIVA**
Kaniva Motors
82 Commercial Street
P: (03) 5392 2300 Fax: (03) 5392 2589

**KOO WEE RUP**
G & J Light Mechanical repairs P/L
Station Road
P: (03) 5997 1325

**KORUMBURRA**
Peter Dunlevie Holden
42 Commercial Street
P: (03) 5655 1288 Fax: (03) 5655 1839

**KYABRAM**
D'Alberto Holden
60 McEwen Road
P: (03) 5852 1366 Fax: (03) 5852 1337

## AUSTRALIAN HOLDEN DEALERS cont.

**KYNETON**
Mollison Motors Pty Ltd
167 Mollison Street
P: (03) 5422 3377 Fax: (03) 5422 3501

**LEONGATHA**
Gleeson Holden
37~43 Bair Street
P: (03) 5662 2361 Fax: (03) 5662 3393

**MANSFIELD**
Martin's Garage
52~54 Chenery Street
P: (03) 5775 2610 Fax: (03) 5775 1179

**MARYBOROUGH**
Graham Jacka Holden
35 Nolan Street
P: (03) 5461 1011 Fax: (03) 5461 4789

**MILDURA**
Stuart & Harrison (Sales) Pty Ltd
24~32 Deakin Avenue
P: (03) 5023 0051 Fax: (03) 5021 3076

**MORTLAKE**
W. Christian (Mortlake) Pty Ltd
107 Dunlop Street
P: (03) 5599 2301 Fax: (03) 5599 2567

**MURRAYVILLE**
Peers Motors
McKenzie Street
P: (03) 5095 2081 Fax: (03) 5095 2054

**NATHALIA**
BHB Motors
6 Blake Street
P: (03) 5866 2660

**NHILL**
Ivan Morrow Motors Pty Ltd
71~73 Nelson Street
P: (03) 5391 1333 Fax: (03) 5391 1228

**NULLAWIL**
Nullawil Motors & General Engineers
Calder Highway
P: (03) 5493 5210 Fax: (03) 5493 5210

**ORBOST**
Merlin Motors
Stanley Street
P: (03) 5154 1909

**PORTLAND**
Reynolds Holden
Henty Highway
P: (03) 5523 1688 Fax: (03) 5523 6299

**QUAMBATOOK**
Quambatook Auto Services
32 Gutherie Street
P: (03) 5457 1237 Fax: (03) 5457 1420

**ROCHESTER**
Bruce Hocking Motors Pty Ltd
71 Moore Street
P: (03) 5484 1455 Fax: (03) 5484 1140

**ROBINVALE**
Stuart & Harrison (Sales) Pty Ltd
cnr Herbert & George Sts
P: (03) 5026 3305

**RUTHERGLEN**
Jasper Bros Pty Ltd
62 Main Street
P: (02) 6032 8404 Fax: (02) 6032 8156

**SALE**
Keith Boyd Holden
273 York Street
P: (03) 5144 3944 Fax: (03) 5144 6289

**SEALAKE**
Paddy Smith Holden
Calder Highway
P: (03) 5070 1147

**SEYMOUR**
Neil Beer Holden
49 Emily Street
P: (03) 5792 2777 Fax: (03) 5792 4111

**SHEPPARTON**
Parker Bros. Auto Co.
Benalla Road
P: (03) 5821 9811 Fax: (03) 5831 1021

**STAWELL**
Howden Holden
72~76 Longfield Street
P: (03) 5358 1888 Fax: (03) 5358 3954

**SWAN HILL**
Swan Hill Holden
94~102 Campbell Street
P: (03) 5033 1800 Fax: (03) 5032 2468

**TALLANGATTA**
Crispin Motors
21 Towong Street
P: (02) 6071 2414 Fax: (02) 6071 2655

**TIMBOON**
Timboon Motors
56 Bailey Street
P: (03) 5598 3007 Fax: (03) 5598 3362

## AUSTRALIAN HOLDEN DEALERS cont.

**TRARALGON**
Colin Watson Holden
Princes Highway
P: (03) 5174 8000 Fax: (03) 5175 0050

**UNDERBOOL**
A.J. Gloster & Sons
Cotter Street
P: (03) 5094 6291 Fax: (03) 5094 6297

**WANGARATTA**
Alan Capp (New Cars) Pty Ltd
29 Tone Road
P: (03) 5721 2133 Fax: (03) 5721 4626

**WARRACKNABEAL**
Amor Motors Aubrey Truck Sales
33 Woolcock Street
P: (03) 5394 1055 Fax: (03) 5398 1904

**WARRAGUL**
Vin Rowe Holden
3 Endeavour Street
P: (03) 5623 1362 Fax: (03) 5623 4314

**WARRNAMBOOL**
Callaghan Motors Pty Ltd
133~137 Fairy Street
P: (03) 5562 3711 Fax: (03) 5562 7415

**WODONGA**
McRae White Motors
182 Melbourne Road
P: (02) 6056 2333 Fax: (02) 6024 7899

**WONTHAGGI**
J.P. Holden
2 Murray Street
P: (03) 5672 1122 Fax: (03) 5672 4141

**YARRAM**
John Palmer Holden
150 Commercial Road
P: (03) 5182 5122 Fax: (03) 5182 6166

**YARRAWONGA**
Pigdons Pty Ltd
155 Belmore Street
P: (03) 5743 1577 Fax: (03) 5744 1788

### Qld. Metropolitan

**ASPLEY**
Zupps Aspley Pty Ltd
1454 Gympie Road
P: (07) 3246 8000 Fax: (07) 3263 7036

**CAPALABA**
Oldfield Holden
103 Redland Bay Road
P: (07) 3245 2200 Fax: (07) 3245 2221

**INDOOROOPILLY**
Westpoint Holden
440 Moggill Road
P: (07) 3378 6622 Fax: (07) 3878 1340

**IPSWICH**
Ross Llewellyn Holden
246 Brisbane Road
P: (07) 3282 2922 Fax: (07) 3282 6359

**LAIDLEY**
Buhse's Garage
5 Spicer Street
P: (07) 5465 1406 Fax: (07) 5465 1706

**MOOROOKA**
John Sivyer Holden
1060 Ipswich Road
P: (07) 3892 3344 Fax: (07) 3848 7816

**MT. GRAVATT**
Zupps Motors Pty Ltd
1310 Logan Road
P: (07) 3877 0000 Fax: (07) 3877 0066

**NEWSTEAD**
Eagers Retail Pty Ltd
95 Breakfast Creek Road
P: (07) 3364 1199 Fax: (07) 3364 1099

**PETRIE**
Village Motors
1059 Gympie Road
P: (07) 3285 2244 Fax: (07) 3285 1975

**REDCLIFFE**
Village Holden
425 Elizabeth Avenue
P: (07) 3284 7344 Fax: (07) 3883 2711

**SPRINGWOOD**
Motorama Holden
3455 Pacific Highway
P: (07) 3804 4888 Fax: (07) 3208 7018

**WINDSOR**
Leach Holden
143 Newmarket Road
P: (07) 3357 6711 Fax: (07) 3357 5403

**WOOLLOONGABBA**
Armstrong Holden
73 Ipswich Road
P: (07) 3891 5522 Fax: (07) 3891 5146

**WYNNUM**
Doug Barton Holden
200 Tingal Road
P: (07) 3396 7777 Fax: (07) 3393 3593

# AUSTRALIAN HOLDEN DEALERS cont.

## Qld. Country

**ATHERTON**
Redding Motors Pty Ltd
2 Cook Street
P: (07) 4091 1344 Fax: (07) 4091 2039

**AYR**
Honeycombes Sales & Service
213~217 Queen Street
P: (07) 4783 2344 Fax: (07) 4783 2079

**BEAUDESERT**
Lawson Holden
57 Brisbane Street
P: (07) 5541 2000 Fax: (07) 5541 3368

**BOWEN**
McDermott Holden
98 Herbert Street
P: (07) 4786 1430 Fax: (07) 4786 2903

**BUNDABERG**
Ross Gray Holden
Takalvan Street
P: (07) 4150 1333 Fax: (07) 4150 1318

**CABOOLTURE**
Beecham Holden
Bribie Island Road
P: (07) 5495 1477 Fax: (07) 5495 2839

**CAIRNS**
Ireland Holden
227~233 Mulgrave Road
P: (07) 4052 3666 Fax: (07) 4052 3606

**CALOUNDRA**
Caloundra City Holden
45 Caloundra Road
P: (07) 5491 5522 Fax: (07) 5491 8016

**CHARLEVILLE**
Alan Dobbin Holden
129 Alfred Street
P: (07) 4654 1737 Fax: (07) 4654 3254

**CHARTERS TOWERS**
Peters Holden
57 Mosman Street
P: (07) 4787 1177 Fax: (07) 4787 4858

**CHINCHILLA**
Ainsworth Motors & Machinery Pty Ltd
55 Chinchilla Street
P: (07) 4662 7286 Fax: (07) 4662 7197

**CROWS NEST**
Dennis Nissen Motors
14 William Street
P: (07) 4698 1300 Fax: (07) 4698 1495

**DALBY**
Johnson's Holden
36 Drayton Street
P: (07) 4662 2422 Fax: (07) 4662 4311

**EMERALD**
Orion Holden
Hospital Road
P: (07) 4980 7622 Fax: (07) 4982 2791

**GATTON**
Gatton Auto Centre
67 Railway Street
P: (07) 5462 1633 Fax: (07) 5462 1980

**GLADSTONE**
Andersons Auto City
56 Yarroon Street
P: (07) 4972 1177 Fax: (07) 4972 9141

**GOONDIWINDI**
Carpro
Cnr Lagoon & West Streets
P: (07) 4671 2170 Fax: (07) 4671 2013

**GYMPIE**
Madills
35 Mellor Street
P: (07) 5482 2522 Fax: (07) 5482 2672

**HERVEY BAY**
Whitaker Motor World
96 Torqyay Road
P: (07) 1281 722

**INGHAM**
Devietti Holden
99 Lannercost Street
P: (07) 4776 1599 Fax: (07) 4776 3547

**INNISFAIL**
I.C. Taylor Pty Ltd
117 Edith Street
P: (07) 4061 1577 Fax: (07) 4061 3963

**JULIA CREEK**
Julia Creek Motors Pty Ltd
Burke Street
P: (07) 4746 7155 Fax: (07) 4746 7197

**KILCOY**
Hobart's Garage
58 Mary Street
P: (07) 5497 1204 Fax: (07) 5497 1204

**KINGAROY**
John Dundas Pty Ltd
38 King Street
P: (07) 4162 1722 Fax: (07) 4162 3756

## AUSTRALIAN HOLDEN DEALERS cont.

**LONGREACH**
Longreach Motors
33 Swan Street
P: (07) 4658 1700 Fax: (07) 4658 1857

**MACKAY**
Pioneer Holden
Cnr Gordon & Wellington Streets
P: (07) 4969 4299 Fax: (07) 4969 4288

**MAROOCHYDORE**
Sunco Holden
Wises Road
P: (07) 5443 7644 Fax: (07) 5443 7645

**MARYBOROUGH**
Whitaker Holden
109~111 March Street
P: (07) 4122 2255 Fax: (07) 4123 1912

**MOUNT ISA**
Barkly Motors Pty Ltd
Marian Street
P: (07) 4743 3044 Fax: (07) 4743 8466

**MURGON**
Clifton Motors
Macalister Street
P: (07) 4168 1066 Fax: (07) 4168 1947

**NAMBOUR**
Kallenbach Motors
139 Howard Street
P: (07) 5441 3099 Fax: (07) 5441 3105

**NANANGO**
Nanango Motors Pty Ltd
102 Drayton Street
P: (07) 4163 1108 Fax: (07) 4163 1108

**NOOSAVILLE**
Madills Noosa
Lot 1 Lionel Donovan Drive
P: (07) 5449 7900 Fax: (07) 5474 3838

**PROSERPINE**
Crossley Car Sales Whitsunday Pty Ltd
162~164 Main Street
P: (07) 4945 1822 Fax: (07) 4945 2022

**ROBINA**
Smith's Robina Holden
16 Brabham Circuit
P: (07) 5575 0500 Fax: (07) 5562 1072

**ROCKHAMPTON**
Lawrence's
327 Richardson Road
P: (07) 4930 5111 Fax: (07) 4930 5112

**ROMA**
Maranoa Multi Agencies
Bowen Street
P: (07) 4622 2900 Fax: (07) 4622 1832

**SOUTHPORT**
Lockhart Holden
Cnr Nerang Road & Olsen Avenue
P: (07) 5597 2900 Fax: (07) 5597 2542

**SPRINGSURE**
Springsure Motors
Eclipse Street
P: (07) 4984 1177 Fax: (07) 4984 1361

**ST. GEORGE**
Halpin Motors
39~41 Grey Street
P: (07) 4625 5466 Fax: (07) 4625 5855

**STANTHORPE**
Central Motors
42 Maryland Street
P: (07) 4681 2200 Fax: (07) 4681 1479

**TOOWOOMBA**
Toowoomba Holden
Cnr James & Hume Streets
P: (07) 4690 0900 Fax: (07) 4690 0909

**TOWNSVILLE**
Tony Ireland Holden
87~91 Charters Towers Road
P: (07) 4726 7777 Fax: (07) 4721 1486

**TULLY**
Island Coast Holden
12 Richardson Street
P: (07) 4068 1288 Fax: (07) 4068 2145

**WARWICK**
Deighton Motors Pty Ltd
Grafton Street
P: (07) 4661 2266 Fax: (07) 4661 1275

### N.T.

**ALICE SPRINGS**
Kittles Holden
Cnr Wills & Railway Terrace
P: (08) 8952 1155 Fax: (08) 8953 1556

**DARWIN**
Kerry Holden
21~25 Stuart Highway
P: (08) 8980 8080 Fax: (08) 8980 8081

**KATHERINE**
Kittles Holden
441 Victoria Highway
P: (08) 8972 1788 Fax: (08) 8971 0209

# AUSTRALIAN HOLDEN DEALERS cont.

**TENNANT CREEK**
Kittles Holden
Paterson Street
P: (08) 8962 2251 Fax: (08) 8962 2527

## S.A. Metropolitan

**ADELAIDE**
City Holden
223 Grenfell Street
P: (08) 8223 7666 Fax: (08) 232 0718

**ELIZABETH**
Peter Page Holden
Elizabeth Way
P: (08) 8255 1288 Fax: (08) 8255 9260

**MALVERN**
Claridge Holden
361~367 Unley Road
P: (08) 8272 1600 Fax: (08) 8373 0057

**PORT ADELAIDE**
Smiths of Port Adelaide
271 Commercial Road
P: (08) 8447 3855 Fax: (08) 84473 978

**REYNELLA**
Southgate Holden
49~59 Main South Road
P: (08) 8381 9555 Fax: (08) 8381 6274

**SOMERTON PARK**
Hamilton Holden
278~288 Brighton Road
P: (08) 8296 4866 Fax: (08) 8296 7112

**THEBARTON**
Metro Holden
1 Port Road
P: (08) 8354 9555 Fax: (08) 8443 6855

**VALLEY VIEW**
Plaza Holden
817~839 North East Road
P: (08) 8263 4922 Fax: (08) 8265 5200

## S.A. Country

**BALAKLAVA**
Balaklava Motors
4 Wallace Street
P: (08) 8862 1030 Fax: (08) 8862 2000

**BERRI**
Rosenthal Bros Pty Ltd
Vaughan Terrace
P: (08) 8582 3644 Fax: (08) 8582 3515

**BORDERTOWN**
Farmer's Centre
South Terrace
P: (087) 520 266

**CEDUNA**
Beck Motors Pty Ltd
Poynton Street
P: (08) 8625 2616 Fax: (08) 8625 3201

**CLARE**
Mid North Motor Company
7 Old North Road
P: (08) 8842 2200 Fax: (08) 8842 2886

**CLEVE**
Herbert Motors Pty Ltd
Rudall Road
P: (08) 8628 2150 Fax: (08) 8628 2537

**CUMMINS**
Trigg & Wedd
3 Umlauf Street
P: (086) 762 105 Fax: (086) 762 303

**CRYSTAL BROOK**
Crouch Rural Pty. Ltd
26 Brandis Street
P: (08) 8636 2257 Fax: (08) 8636 2088

**GAWLER**
Steinborner Holden
Cnr Murray & Bridge Sts
P: (08) 8522 4222 Fax: (08) 85) 8522 4898

**KADINA**
J.H. Rosewarne Pty Ltd
Graves Street
P: (08) 8821 1111 Fax: (08) 8821 1686

**KEITH**
Farmers Centre
McBain Street
P: (08) 8755 3222 Fax: (08) 8755 3211

**KINGSCOTE**
Roberts Motors
Telegraph Road
P: (084) 822 021 Fax: (084) 822 853

**KIMBA**
R.J. Flavel Mechanical Repairs
30 High Street
P: (086) 272 555 Fax: (086) 272 044

**KINGSTON**
Lecornu's Service Garage
Agnes Street
P: (08) 8767 2424 Fax: (08) 8767 2533

## AUSTRALIAN HOLDEN DEALERS cont.

**LOXTON**
Flight Motors Pty Ltd
Bookpurnong Terrace
P: (08) 8584 7277 Fax: (08) 8584 5937

**MINLATON**
Southway
9 Fifth Street
P: (08) 8853 2322 Fax: (08) 8853 2451

**MAITLAND**
Maitland Motors Pty Ltd
58 Robert Street
P: (08) 8832 2601 Fax: (08) 8832 2673

**MENINGIE**
Peter Hood Holden
Cnr Princes Highway & Coonalpyn Road
P: (08) 8575 1109 Fax: (08) 8575 1537

**MILLICENT**
O G R Millicent
98 George Street
P: (08) 8733 3488 Fax (08) 8733 3112

**MT. BARKER**
Gilbert Motors
57 Adelaide Road
P: (08) 8391 1500 Fax: (08) 8398 2124

**MT. GAMBIER**
O.G. Roberts & Co
Jubilee Highway West
P: (08) 8725 6788 Fax: (08) 8723 0636

**MURRAY BRIDGE**
Dutton Motors Pty Ltd
7 Adelaide Road
P: (08) 8532 1999 Fax: (08) 8531 0599

**NARACOORTE**
Kingcraig Motors Pty Ltd
158~164 Smith Street
P: (08) 8762 1555 Fax: (08) 8762 1806

**PORT AUGUSTA**
Hayes Augusta Motor Company
38 Stirling Road
P: (08) 8641 0488 Fax: (08) 8642 4300

**PORT LINCOLN**
City Motors
King Street
P: (08) 8682 1100 Fax: (08) 8682 4734

**PORT PIRIE**
Spencer Holden
50 Ellen Street
P: (08) 8632 3888 Fax: (08) 8632 6405

**RENMARK**
Rosenthal Motors Pty Ltd
Ral Ral Avenue
P: (08) 8586 6626 Fax: (08) 8586 4040

**ROXBY DOWNS**
Augusta Motor Co.
10 Gosse Street
P: (086) 710 100 Fax: (086) 710 950

**STRATHALBYN**
Gilbert Holden Strathalbyn
High Street
P: (08) 8536 2066 Fax: (08) 8536 2672

**TANUNDA**
Hage & Co Pty Ltd
50 Murray Street
P: (08) 8563 2123 Fax: (08) 8563 3488

**VICTOR HARBOR**
Southern Motors Holden
5 Victoria Street
P: (08) 8552 1255 Fax: (08) 8555 2788

**WAIKERIE**
Riverside Holden
6 Crush Terrace
P: (08) 8541 2900 Fax: (08) 8541 3325

**WHYALLA**
McLeod's Whyalla Motor Company
64 Essington Lewis Avenue
P: (08) 8645 7388 Fax: (08) 8645 5512

**YANKALILLA**
Martin Motors Pty Ltd
Main Street
P: (08) 8558 2052 Fax: (08) 8558 2911

**YORKETOWN**
Southway Holden
7 Minalaton Road
P: (08) 8852 1322 Fax: (08) 8852 1271

### W.A. Metropolitan

**CANNINGTON**
Brian Gardner Holden
1308~1324 Albany Hwy
P: (08) 9451 2333 Fax: (08) 9458 9144

**FREMANTLE**
Shacks Holden
64 Queen Victoria Street
P: (08) 9432 9432 Fax: (08) 9432 9456

**GOSNELLS**
Lance Gibbons Holden
2325 Albany Highway
P: (08) 9398 2211 Fax: (08) 9398 5683

# AUSTRALIAN HOLDEN DEALERS cont.

**MANDURAH**
Mandurah Holden
283 Pinjarra Rd
P: (08) 9535 8777 Fax: (08) 9535 8822

**MELVILLE**
Melville Motors Pty Ltd
532~540 Canning Highway
P: (08) 9333 5333 Fax: (08) 9333 5300

**MIDLAND**
Goldy Holden
161 Great Eastern Highway
P: (08) 9274 3411 Fax: (08) 9274 6042

**MORLEY**
Metro Motors Holden
212 Walter Road West
P: (08) 9449 3522 Fax: (08) 9449 3596

**NAVAL BASE**
Shacks Cockburn
15 Rockingham Road
P: (08) 9410 1433 Fax: (08) 9410 2331

**OSBORNE PARK**
North City Holden
Cnr Scarborough Beach Rd & Harborne St
P: (08) 9273 2222 Fax: (08) 9273 2220

**PERTH**
City Motors
505 Newcastle Street
P: (08) 9422 7777 Fax: (08) 9422 7630

**VICTORIA PARK**
Youngs Holden
529 Albany Highway
P: (08) 9449 9449 Fax: (08) 9449 9494

**WANNEROO**
Phoenix Holden
5 Berriman Drive
P: (08) 9409 9200 Fax: (08) 9309 2140

## W.A. Country

**ALBANY**
Mark Loveridge Holden
92~98 Earl Street
P: (08) 9841 2355 Fax: (08) 9841 8623

**BRIDGETOWN**
Kordics Bridgetown
Hampton Street
P: (08) 9761 1377 Fax: (08) 9761 2151

**BROOKTON**
Coote Motors
Robinson Road
P: (08) 9642 1108 Fax: (08) 9642 1003

**BROOME**
Norwest Holden
McPherson Street
P: (08) 9192 1277 Fax: (08) 9192 2230

**BUNBURY**
Bunbury Holden
3 Sandridge Road
P: (08) 9791 3899 Fax: (08) 9791 2990

**BUSSELTON**
Fennessy's
4~8 Bussel Hwy
P: (08) 9752 1577 Fax: (08) 9752 4080

**CARNAMAH**
T & H Walton Stores Pty Ltd
Robertson Street
P: (08) 9951 1130 Fax: (08) 9951 1082

**CARNARVON**
North West Autos
175 Robinson Street
P: (08) 9941 1159 Fax: (08) 9941 1363

**COLLIE**
Station Motors
102 Throssell Street
P: (08) 9734 1855 Fax: (08) 9734 1913

**CORRIGIN**
Farmpower
Kunjin Street
P:(08) 9063 2303 Fax: (08) 9063 2445

**CRANBROOK**
Cranbrook Motors
11~13 Gathorne Street
P: (08) 9826 1014 Fax: (08) 9826 1097

**DALWALLINU**
Reid & Inglis
Johnson Street
P: (08) 9661 1120 Fax: (08) 9661 1243

**DERBY**
Colac Service Station
Lot 84, Loch Street
P: (08) 9191 1429 Fax: (08) 9191 2133

**ESPERANCE**
Dempster Holden
Norseman Road
P: (08) 9071 1155 Fax: (08) 9071 3799

## AUSTRALIAN HOLDEN DEALERS cont.

**GERALDTON**
Young Motors
Cathedral Avenue
P: (08) 9921 1088 Fax: (08) 9964 1157

**GNOWANGERUP**
G.S. Hendry & Co Pty Ltd
Yougenup Street
P: (08) 9827 1030 Fax: (08) 9827 1460

**HARVEY**
Stockman Holden
111 Uduc Road
P: (08) 9729 3333 Fax: (08) 9729 3221

**KALGOORLIE**
Golden City Holden
114 Boulder Road
P: (08) 9021 1699 Fax: (08) 9021 5737

**KARRATHA**
Moxham Motors
Lot 4551 Balmoral Road
P: (08) 9144 1225 Fax: (08) 9144 1258

**KATANNING**
Edwards Holden
159 Clive Street
P: (08) 9821 2388 Fax: (08) 9821 2429

**KELLERBERRIN**
Dowding Motors
1 Mitchell Street
P: (08) 9045 4141 Fax: (08) 9045 4466

**KOJONUP**
Harris' Garage
Albany Highway
P: (08) 9831 1122 Fax (08) 9831 1043

**KULIN**
Farmpower
High Street
P: (08) 9880 1266 Fax: (08) 9808 1281

**KUNUNURRA**
Elgee Holden
231 Bloodwood Drive
P: (08) 9168 2236 Fax: (08) 9169 1124

**MANJIMUP**
Manjimup Automotive Services
Pritchard Street
P: (08) 9771 1388 Fax: (08) 9777 1214

**MERREDIN**
Carson's of Merredin
112 Barrack Street
P: (08) 9041 1444 Fax: (08) 9041 1765

**MOORA**
Frank Lewis Holden
Gardiner Street
P: (08) 9651 1408 Fax: (08) 9651 1724

**NAREMBEEN**
Aquip Holden
20 Churchill Avenue
P: (08) 9064 7214 Fax: (08) 9064 7065

**NARROGIN**
Marley White & Co
Federal Street
P: (08) 9881 4777 Fax: (08) 9881 4707

**NEWMAN**
Cockburn Corefleet
Newman Drive
P: (08) 9175 1421

**NORTHAM**
Withnell Motors
58 Fitzgerald Street
P: (08) 9622 1188 Fax: (08) 9622 3664

**PORT HEDLAND**
15 Anderson Street
Moxham Motors
P:(08) 9173 3660 Fax: (08) 9144 1258

**QUAIRADING**
Farmpower
York Road
P: (08) 9645 1103 Fax: (08) 9645 1310

**TOM PRICE**
Farnor Motors Pty. Ltd.
43 Booneroo Road
P: (08) 9189 1400

**WAGIN**
Marley White & Co
63 Tudor Street
P: (08) 9861 1055 Fax: (08) 9861 1657

**WONGAN HILLS**
Agro Machinery Pty Ltd
10 Wongan Road
P: (08) 9671 1311 Fax: (08) 9671 1505

**WYALKATCHEM**
Agro Machinery
Railway Terrace
P: (08) 9681 1088 Fax: (08) 9681 1082

CHAPTER 10

# Towing

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10-2 Loading
10-3 Towing
10-4 Towing precautions

# LOADING THE VEHICLE

Overloading is a safety hazard and could also shorten the life of your vehicle or its parts. The recommended carrying capacity of your vehicle is:

Combo - 545 kg (including 2 occupants and luggage)

If you load your vehicle other than to the above recommendations then you should ensure that the MAXIMUM REAR AXLE LOAD and the GROSS VEHICLE WEIGHT are not exceeded.

## Kerb weight

The kerb weights shown in the chart are for the weight of a standard unloaded vehicle, without any options, but with a full tank of fuel.

| | |
|---|---|
| Kerb weight | 1,075 kg |
| Gross Vehicle Weight | 1,620 kg |
| Max rear axle | 970 kg |

## (G.V.W.) Gross Vehicle Weight

The Gross Vehicle Weight is the maximum that a vehicle is allowed to weigh when fully loaded. This must include any luggage, passengers, roof rack load and a full tank of fuel. If you are towing, then the weight of the tow bar ball load (see following page) must also be included. The maximum, allowable weight for your vehicle is shown in the chart below.

## Maximum rear axle load

*Remember to take the tow bar ball load into account when determining the rear axle load.* The maximum allowable rear axle load for your vehicle is shown in the following chart.

## Roof rack loads

For safety reasons and to avoid damaging the roof, only the roof rack approved by Holden for your vehicle should be used.

The maximum allowable roof rack load is 100 kg.

Roof rack loads alter the handling of a vehicle, due to a change in the centre of gravity. When carrying loads on the roof rack avoid abrupt swerving or sharp steering. The load should be evenly distributed and you should not drive faster than 100 km/h.

The weight on the roof rack must be included when working out the maximum vehicle load (G.V.W.) - the roof rack load should be treated as luggage.

# TOWING

Your vehicle is designed primarily as a passenger vehicle, so handling, durability and economy may be affected by towing a caravan or trailer. Before attempting any towing, ensure that the correct equipment and any necessary modifications are fitted.

The towing capacity when trailer brakes are fitted is:

750 kg

The towing capacity when trailer brakes are *not* fitted is:

450 kg

In higher elevations and/or mountainous terrain the maximum towing and loading limits should be reduced.

Note: Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment which should be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the vehicle arising from the use of such equipment.

## Tow bar ball load

The tow bar ball load is the weight on the tow bar ball, when the packed trailer/caravan is hitched. It must not exceed or drop below the following.

- loaded trailer weighing up to 625 kg - at least 4% of the loaded trailer weight.
- loaded trailer weighing over 625 kg - at least 25 kg but not more than 50 kg.

The tow bar ball load can be adjusted by correctly packing the contents of the trailer/ caravan.

If the ball load is too light or too heavy, the steering and handling of the vehicle will be greatly impaired. However, it is desirable to aim for the maximum, rather than the minimum tow bar ball load.

When measuring the tow bar ball load, make sure that the drawbar of the loaded trailer/ caravan is at the same height as it will be when the trailer/caravan is mounted on the vehicle. This is particularly important for trailer/caravans with tandem axles.

# TOWING cont.

## Safe towing tips

Your vehicle will handle differently when towing. It's a good idea to make a couple of short distance trips with the trailer/caravan before you set off on the big one.

Have your vehicle correctly maintained and serviced.

Have your trailer/caravan maintained and serviced, with particular attention given to condition of brakes, tyres, suspension, wheel bearings, towing coupling and lighting.

You should have an extended-arm mirror on both sides of your vehicle.

Headlights may need re-aiming after the loaded caravan has been hitched, particularly if a load equalizing hitch is not used.

Use a lower gear, rather than your brakes when descending steep hills.

If your trailer/caravan moves off the road behind you, allow the left wheels of your vehicle to move off as well. When it is safe to do so, carefully steer back on to the road. A sudden attempt to steer back could make you swerve dangerously.

## Towing precautions

- **When towing you should not exceed 80 km/h.**
- When towing, your tyres should be inflated to the maximum recommended pressure shown on the tyre placard.
- Loads should be secured so that they cannot slip and should be placed in the centre of the trailer/caravan if possible, i.e. above the axle.
- Trailer brakes are required on trailer/caravans weighing over 500 kg when loaded. Some States require trailer brakes on loads less than 500 kg
- The brakes on the trailer/caravan must be designed to cope with the braking requirements of that trailer/caravan under all towing conditions, without adversely affecting the brakes on the vehicle.
- Make sure that you have enough room when cornering and avoid sudden manoeuvres.
- In the case of trailer/caravans with low directional stability, it is advisable to use a stabiliser to damp rolling motions.
- The cooling fan is driven electrically and so is not dependant on engine speed. At high engine speeds a hot of heat is produced and at low engine speeds correspondingly less heat is produced. For this reason, when driving uphill, do not shift down into a lower gear (which will increase engine speed) whenever the vehicle can still climb the hill in the higher gear.
- Whenever a towbar is removed, be certain to have any mounting holes in the underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.
- Ensure that the tow bar does not obscure the rear licence plate. If necessary, remove the towbar tongue when it is not required for towing.
- If starting off on hills with a manual transmission, the most favourable engine speed is between 2,000 and 3,000 r.p.m.

CHAPTER 11

# Cleaning


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**INTERIOR CLEANING**

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11-2 Vinyl (P.V.C.) fabrics
11-3 Cloth fabrics
11-3 Carpet
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11-3 Interior glass

**EXTERIOR CLEANING**

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11-5 Grease, oil & tar spots
11-5 Polishing
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11-5 Wheels
11-6 Exterior glass
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# INTERIOR CLEANING

**CAUTION:**

Many cleaners may be toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as: acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, gasoline or naphtha for any cleaning purpose. Be sure the vehicle is well ventilated while using any cleaners and always follow the cleaning manufacturer's recommendations.

## Care and cleaning of upholstery

Dust and dirt which accumulate on upholstery should be removed every few weeks - more often with constant driving. This can be done readily with a vacuum cleaner. Before attempting to remove spots and stains, it is necessary to determine as accurately as possible:

- The type of fabric.
- The nature and age of the stain.
- The effect of the stain removal agent upon the colour, structure and general appearance of the upholstery.

It is essential that stains be removed as soon as possible after they have been made. If they are allowed to remain on the fabric for any length of time they very often become oxidised or set, and removal becomes difficult, if not impossible.

## Cleaning P.V.C. coated fabrics

Vinyl (P.V.C.) coated fabrics are used for seating, head linings and auxiliary trimming. The grades used vary according to their function. P.V.C. fabrics are generally made by coating fabric with synthetic resins. Care of P.V.C. fabrics is a relatively simple but important matter. The surface should be wiped over with a dry cloth during the regular cleaning of the vehicle.

Should dirt accumulate and become embedded in the material pattern, the following procedure is recommended.

1. Using luke warm water and soap, or Holden Velour Fabric and Vinyl Cleaner, work up thick suds on a piece of cheesecloth, and apply to the surface. A soft bristle brush can be used to remove stubborn stains or dirt embedded in the grain of the material.
2. Repeat using only a damp cloth and no soap.
3. Wipe dry with a soft cloth. The above cleaning instructions also apply to the rubber floor mats.

# INTERIOR CLEANING

## Cleaning cloth trim

Where the seats in your vehicle are upholstered with cloth, the following instructions should be observed.

★ Most loose dirt and dust can be removed by a vacuum cleaner or soft brush.

★ DO NOT use a whisk broom or a coarse hair brush.

★ If normal soiling should take place it is recommended that the fabric be sponged lightly with warm water containing a detergent and a small amount of ammonia. The fabric should then be rubbed lightly, and if necessary, sponged again to remove anything stubborn. Soak up excess fluid with a dry cloth. Holden Velour Fabric and Vinyl Cleaner may be used to advantage, but should be used sparingly.

## Cleaning carpet

Thoroughly brush or vacuum the carpet. In many instances the carpet may require no further cleaning. If the carpet is extremely soiled, thoroughly vacuum it to remove loose dirt then, using Holden Velour Fabric and Vinyl Cleaner, clean approximately one square foot at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner.

## Cleaning seat belts

Cleaning of seat belts can be carried out by using a mild non-abrasive soap and luke warm water. After washing be sure to thoroughly sponge the washing solution out of the belts.

**CAUTION:**

Do not bleach or dye seat belts since this may severely weaken them.

## Cleaning interior glass

The interior glass area of the vehicle should be cleaned using Holden Glass Cleaner with a clean soft cloth. Care must be taken when cleaning inside the rear window so as not to damage the demister.

Never use abrasive cleaners on any vehicle glass, as they may cause scratches.

# WASHING

**CAUTION:**

Care should be taken when moving the vehicle after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

## Underbody cleaning

Your vehicle has a factory-applied PVC undercoating in the wheel arches (including longitudinal members) which provides permanent protection and needs no special maintenance. The surfaces of the vehicle underside not covered by PVC are provided with a durable protective wax coating. Once a year, preferably before the start of the cold season the wax coating and PVC coating should be checked and if necessary, restored to perfect condition. Commercial bitumen and rubber materials can damage PVC coating. Have all work on the underbody performed by a Holden Dealer, as it requires knowledge of the specified materials and experience concerning their application.

The underbody should be washed following the end of the cold weather season to remove any dirt adhering to the underbody, since this may also contain salt.

## Washing paint

Washing not only removes dirt and road grime that settles on the vehicle, but also dilutes acids which accompany such grime, in particular, salt from air or sea spray encountered in coastal areas which often become trapped in crevices. Tree sap, road tar, excretion from birds or insects and industrial fall out often contain harmful chemicals and other foreign matter that may permanently damage the paint finish of the vehicle. These should be removed without delay, using an effective removal agent.

## Regular washing

If the vehicle is in continuous use, it should be washed at least once a week with either cold or warm water (preferably running water), using clean chamois leathers, sponges or rags free from dirt or grit likely to scratch the paint finish. It is good practice to first hose the vehicle to remove as much of the grit and grime as possible before swabbing the surface.

Do not wash the vehicle under bright sunlight on hot days, as this will result in a streaky or spotted paint finish. This is caused by refraction of sunlight through the water drops (just like a magnifying glass) which concentrates the sunlight, producing very high temperatures on the paint surface. For the same reason, you should thoroughly dry the vehicle after washing.

Holden Foaming Car Wash or Wash On Shine loosens road grime to make washing easier and leaves paint shining clean, refer last page of this chapter.

Do not use hot water, strong soap or chemical detergents. Any cleaner should be flushed promptly from the surface and not allowed to dry on the finish.

Hand washing of the vehicle is recommended. However, if an automatic car wash is used then the roof antenna should be removed before driving through.

# EXTERIOR CLEANING

## Removing grease, oil and tar spots

Grease and oil, and even tar if it's fresh, can be removed from the finish with a little kerosene or turpentine. As a precaution against staining, wash and polish as soon as possible the area from which the foreign matter has been removed.

**Warnings**

- Some chemical cleaners used for removing road oils and tars from painted surfaces have been found to be detrimental to paint finishes.
- If petrol is spilt on the paint when refilling, flush off immediately with clean water, as petrol has a tendency to stain or soften new paint finish during the weathering out period, particularly when the vehicle is exposed to high temperatures.
- Petrol MUST NOT be used to clean any painted or plastic surfaces.

## Insect spots

Insect spots on the paint finished parts of the vehicle can be easily washed off by using a solution containing 1 litre of water in which approximately 110 grams of baking soda (Bicarbonate of Soda) has been dissolved. Flush the washed parts with clean water.

## Polishing and waxing

Wax your vehicle regularly and in particular after it has been washed using shampoo, otherwise the paintwork will dry out. The vehicle must be re-waxed before water no longer forms beads on the paint. Waxing prevents harmful chemical action. Also wax edges and folds on opened doors and flaps as well the areas they cover.

Polishing is necessary only if the paint has become dull or if solid deposits have become attached to it. Plastic body parts should not be treated with wax or polish.

## Paint inspection

Regular inspection of the vehicle should be made for scratch marks, cracks or damaged areas, all of which could develop rust and thus affect paint finish. Any deep scratches, cracks or breakdown in the finish should be repaired without delay. Care should be taken to ensure that any rusting is counteracted immediately, otherwise rust "creep" will extend beyond the damaged area. This applies particularly in sub-tropical areas or coastal districts, where the moist, or salt-laden atmosphere accelerates rusting if it is allowed to develop through neglect. The paint finish of the vehicle gives a very high degree of protection against the weather, but it should be realised that wear and deterioration occur when the vehicle is exposed to elements for prolonged periods. The vehicle therefore should be garaged whenever possible.

## Wheels

Wheels are painted and can be treated with the same cleaner as the body. For alloy wheels Holden alloy wheel cleaner is recommended.

# EXTERIOR CLEANING

## Tyres

Sponging with cold water is all that is necessary for normal cleaning of the tyres. Oil and grease can, and should be removed with soap and water or detergent. For tar or other substances, a mild abrasive, such as mechanic's hand soap or kitchen cleaning powder, may be used if necessary. Thoroughly wash the tyres with water to finish. Petrol must not be used for cleaning tyres.
New tyre look can be restored using Holden Tyre and Bumper Shine, refer last page of this chapter.

## Glass cleaning - general

Special care should be taken to avoid scratching the glass when cleaning. If it is cleaned at the same time as the rest of the vehicle, there is a possibility that particles of grit will cause fine scratches. Flush off any heavy mud deposits on the glass when washing the body, but leave the final cleaning and polishing until afterwards. Use Holden Glass Cleaner and wash each section of glass in turn, making sure that the water, its container and the sponge are quite clean and free from grit. Clean old linen cloth is better than new material for polishing glass.

## Windscreen

It is important that the windscreen be kept clean so that the wiper blades may be as effective as possible in wiping the surface. Old wiper blades can cause windscreen scratching and therefore should be inspected regularly and replaced as necessary.
Abrasive materials must never be used to clean glass as they can cause scratches. A scratched windscreen will impair vision, particularly at night. After the windscreen has been cleaned with a wet sponge it should be wiped over with a soft lint free cloth or chamois.
It is recommended that Holden Optikleen be added to the windscreen washer reservoir to assist the wipers in keeping the windscreen clean whilst driving.

## Wiper blades

Oil and road scum thrown up onto the windscreen will cause smearing when the wipers are switched on, as dirt then transfers onto the wiper blades. Many owners, whilst they methodically clean the windscreen glass, omit to clean the wiper blades and consequently smearing of the glass reappears immediately the wiper blades are set in motion. The blades can be cleaned by simply lifting them off the windscreen glass and cleaning with Holden Optikleen and a clean cloth.
DO NOT OPERATE THE WIPER BLADES BY HAND AS THIS MAY DAMAGE THE WIPER DRIVE MECHANISM.
If in dry conditions, the wiper blades are used to clean dust and dirt from the windscreen always use the washer system first to wet the windscreen. Ensure that the windscreen washer reservoir is not empty.

## Engine bay

Important areas of the engine bay have been protected with a lacquer coating. Wash the engine only if absolutely necessary. Before washing the engine, protect the alternator and brake fluid container with plastic covers. After washing, parts of the engine, parts of the brake system located in the engine bay, axle components as well as body parts and cavities may need to protectively re-waxed.

## CLEANING PRODUCTS

| HOLDEN PART NUMBER | SIZE | DESCRIPTION | USAGE |
|---|---|---|---|
| 92141386 | 500 ml | Polymer glaze polish | Seals in a deep, lustrous, glazed finish. Long life protection from oxidation, salt and weather damage. |
| 92141387 | 500 ml | Easy gloss polish | Contains silicones and hard working waxes for extra shine. |
| 92141388 | 500 ml | Wash on shine | Contains polymer protectants to shine. Adds a protective film to paintwork. |
| 92141389 | 500 ml | Foaming car wash | Leaves a no-streak finish. |
| 92141390 | 400 g | Velour fabric and vinyl cleaner | Cleans and deodorises velour, most fabric and vinyl upholstery, hood linings, mats and carpets. |
| 92141391 | 350g | Tyre and bumper shine | Restores tyres and bumpers to as new finish. |
| 92141182 | 350 g | Glass cleaner | Cleans all glass surfaces. |
| 92141392 | | Chamois | |
| 92140005 | 500 ml | Optikleen | Windscreen washer solvent. |
| 92140004 | 5 ml | Optikleen sachet | Windscreen washer solvent - 1 sachet per washer bottle refill |
| 92141393 | 125 g | Car freshener/deodorant | Removes tobacco smells and other odours. |
| 92141394 | 300 g | Bug, tar and spot remover | Quickly dissolves and removes tar, grease, oil, bugs and other stubborn stains from your car's exterior. |
| 92141395 | 750 ml | Wheel cleaner | Wheel cleaner, including alloy wheels |
| 92141396 | 400 g | Degreaser | Removes oil and grease from engines. |

CHAPTER 12

# Servicing

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## SERVICE INTERVALS

When it comes to service, remember that your Holden Dealer has the trained personnel and specialised equipment to correctly service your vehicle. Your Dealer invites you to return for all your service needs both during and after the warranty period.

The safety, economy, emission control, performance and reliability of your vehicle cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians at Holden Dealers.

Therefore, it is in the owner's interest that the following services are performed at the specified Distance or Months (whichever occurs first).

1,500 km - 1 month inspection
15,000 km - 1 year
30,000 km - 2 years
45,000 km - 3 years
60,000 km - 4 years
75,000 km - 5 years
90,000 km - 6 years
105,000 km - 7 years
120,000 km - 8 years
135,000 km - 9 years
150,000 km - 10 years
165,000 km - 11 years
180,000 km - 12 years

The one month (1,500 kilometres) inspection will be performed without cost for labour by the Selling Dealer.

This service may be carried out by another Holden Dealer provided you have a letter of Introduction from the Selling Dealer.

Your Dealer will supply the necessary letter of Introduction upon request.

The services shown in this schedule between 15,000 km and 180,000 km are to be performed after 180,000 km at the same intervals.

NOTE: All maintenance services as listed in this handbook and replacement of service items are the responsibility of the owner and as such are NOT considered, under the provisions of the new vehicle warranty to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to drive belts, transmission, clutch, parking brake, etc. or any other items which may require servicing due to fair wear and tear will be carried out at the owner's cost.

Failure to have proper maintenance services carried out by an Authorised Holden Dealer or service Dealer may void your new Vehicle Warranty if the work is not carried out in accordance with Holden's specifications. It is strongly recommended that you read the "New Vehicle Warranty" in Chapter 9 so that you are aware of your entitlements.

Service coupons are provided further on in this chapter. When each service is performed the coupon is removed so that the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should check that the service has been validated, by the Dealer stamping and signing the coupon stub. This is important as it will not only assist in the determination of Warranty Claims, but will enhance the value of the vehicle when selling.

## EXTREME OPERATING CONDITIONS

If your vehicle operates under any of the extreme conditions listed in the following table it is recommended that some items be serviced more frequently than the intervals specified in the Maintenance Plan.

NOTE: The extra services listed below need only be used continuously if your vehicle operates continuously under the conditions specified.

If you operate under any of these conditions on a one off basis e.g. holiday trip, then an extra service should be for that period only.

As a guide, if you operate continually for a period of one month or 1,500 km under any of the extreme conditions, then this could qualify for additional services.

If at any time it is considered that the above items or other items should be more frequently serviced due to the type of operation or before a long trip, discuss the situation with the service manager of your Holden Dealer.

| | Short distance with frequent cold starts | Mainly city or short distance driving |
|---|---|---|
| Change engine oil and filter | ✔ | ✔ |

| | |
|---|---|
| SPECIAL ENGINE OIL AND ENGINE OIL FILTER CHANGE FOR EXTREME OPERATING CONDITIONS<br><br>Date ..... km .....<br>Servicing<br>Dealer ..... | SPECIAL ENGINE OIL AND ENGINE OIL FILTER CHANGE FOR EXTREME OPERATING CONDITIONS<br><br>Date ..... km .....<br>Servicing<br>Dealer ..... |
| SPECIAL ENGINE OIL AND ENGINE OIL FILTER CHANGE FOR EXTREME OPERATING CONDITIONS<br><br>Date ..... km .....<br>Servicing<br>Dealer ..... | SPECIAL ENGINE OIL AND ENGINE OIL FILTER CHANGE FOR EXTREME OPERATING CONDITIONS<br><br>Date ..... km .....<br>Servicing<br>Dealer ..... |

# MAINTENANCE SCHEDULE

| Use odometer reading or years, whichever occurs first | x 1,000 km | 1.5 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | or years | 1/12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

## SERVICE ITEMS

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COOLANT - check level, check coolant % | 1/12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| DRIVE BELTS - check | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| ENGINE TOOTHED BELT - replace | | | | | | | | | 8 | | | | |
| AIR CLEANER paper element - replace | | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |
| SPARK PLUGS - replace | | | | | 4 | | | | 8 | | | | 12 |
| FUEL FILTER - replace | | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |
| ENGINE OIL AND FILTER - replace | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| POWER STEERING - check level | 1/12 | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |
| LEAKAGE - visual check of engine and trans | 1/12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check | 1/1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| WINDSCREEN WIPE/WASH system check fluid level and blade condition | 1/1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| CLUTCH PEDAL adjustment - check adjustment | 1/1 | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |
| DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate | | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |

# MAINTENANCE SCHEDULE

| Use odometer reading or years, whichever occurs first | x 1,000 km | 1.5 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | or years | 1/12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

## SERVICE ITEMS

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HEADLIGHT ADJUSTMENT - check | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| BODY/UNDERBODY - check corrosion protection | 1/12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| FRONT DISC BRAKES - check pad thickness | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| REAR DRUM BRAKES - check pad thickness | | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |
| BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES EXHAUST AND SUSPENSION - visual check | 1/12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| RUBBER BOOTS - check | 1/12 | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |
| WHEELS - check wheel nut torque, tyre condition and tyre pressure | 1/12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| POLLEN FILTER - change (if fitted) | | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |
| BRAKE PROPORTIONING VALVE - check | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| BRAKE FLUID - change | | | | | | change every 2 years (regardless of km) | | | | | | | |
| ROAD TEST | 1/12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

## SERVICE TIMES

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Labour hours | free | 1.1 | 1.5 | 1.1 | 1.6 | 1.1 | 1.5 | 1.1 | 2.6 | 1.1 | 1.5 | 1.1 | 1.6 |
| add 0.2 hours when brake fluid changed | | | | | | | | | | | | | |
| add for pollen filter, if fitted | | | 0.1 | | 0.1 | | 0.1 | | 0.1 | | 0.1 | | 0.1 |

- The owner will be charged for all lubricants and materials used plus labour at the times recommended above.
- The repair or replacement of any part found faulty during a service check and not covered by Holden Warranty will be added to the charges.
- Where any deficiencies are noted, such items should be reported to the owner/ operator so that the extra work required can be authorised.
- The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may indeed be harmful to your vehicle.

## 1,500km or 1 month Inspection

This coupon should not be removed until the car is presented for inspection.

Owner's Name
Mr.
Mrs. .....
Miss.
Other.....

Address .....

Town & State ..... Postcode .....

Reg. no. ..... Engine no .....

I.S.O.V.I.N. ..... Model .....

Selling Dealer's Stamp & Signature .....

Date of Acquisition .....

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This car has been thoroughly checked in accordance with the schedule on the reverse side of this coupon.

Servicing Dealer's Stamp & Signature .....

Servicing Dealer .....

Town ..... State .....

Owner's signature .....

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**This inspection is provided FREE of charge.**

## 1,500km or 1 month Inspection Validation

This car has been thoroughly checked in accordance with the 1,500 km/one month inspection.

Dealer .....

Service Manager's signature .....

Date ..... Odometer reading .....

- ❑ COOLANT - check fluid level, check coolant %
- ❑ ENGINE OIL - check fluid level
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKE FLUID - check fluid level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ CLUTCH PEDAL adjustment - check adjustment
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ ROAD TEST

**15,000 km or 1 year**

**SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.1 hours

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**15,000 km or 1 year Service Validation**

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans.
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

**30,000 km or 2 years**

**SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

**30,000 km or 2 year Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ AIR CLEANER paper element - replace
- ❑ FUEL FILTER - replace
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH PEDAL adjustment - check adjustment
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ REAR DRUM BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**45,000 km or 3 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.1 hours labour
- add 0.2 hours if brake fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

**45,000 km or 3 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**60,000 km or 4 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.6 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

**60,000 km or 4 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ AIR CLEANER paper element - replace
- ❑ SPARK PLUGS - replace
- ❑ FUEL FILTER - replace
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH PEDAL adjustment - check adjustment
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ REAR DRUM BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**75,000 km or 5 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.1 hours labour
- add 0.2 hours if brake fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

**75,000 km or 5 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**90,000 km or 6 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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.....

.....

Signature .....

Date .....

**90,000 km or 6 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ AIR CLEANER paper element - replace
- ❑ FUEL FILTER - replace
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH PEDAL adjustment - check adjustment
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ REAR DRUM BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**105,000 km or 7 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.1 hours labour
- add 0.2 hours if brake fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

**105,000 km or 7 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**120,000 km or 8 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 2.6 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**120,000 km or 8 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE TOOTHED BELT - replace
- ❑ AIR CLEANER paper element - replace
- ❑ SPARK PLUGS - replace
- ❑ FUEL FILTER - replace
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH PEDAL adjustment - check adjustment
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ REAR DRUM BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**135,000 km or 9 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.1 hours labour
- add 0.2 hours if brake fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**135,000 km or 9 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**150,000 km or 10 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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.....

Signature .....

Date .....

**150,000 km or 10 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ AIR CLEANER paper element - replace
- ❑ FUEL FILTER - replace
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH PEDAL adjustment - check adjustment
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ REAR DRUM BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**165,000 km or 11 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.1 hours labour
- add 0.2 hours if brake fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**165,000 km or 11 years Service Validation**

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
.....
.....
.....
.....
.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**180,000 km or 12 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.6 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**180,000 km or 12 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

.....

.....

.....

.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ AIR CLEANER paper element - replace
- ❑ SPARK PLUGS - replace
- ❑ FUEL FILTER - replace
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH PEDAL adjustment - check adjustment
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ REAR DRUM BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

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